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144284

CRS

From: Lockard, Jon
Sent: Friday, February 04, 2005 3:59 PM
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Subject: INTERFERENCE Sequence Search for: 10/071,370

Examiner: Jon Lockard (4C31) AU 1647
Serial Number: 10/071,370

Interference search of SEQ ID NO: 3 against the following nucleic acid databases:

-Pending
-Issued

NA-477

Interference search of SEQ ID NO: 4 against the following protein databases:

-Pending
-Issued

AA-158

Please deliver it to my mailbox @ Remson 4C70

**Thank you,
JML
Examiner # 80265**

Mej

Jon M. Lockard
Art Unit 1647
(571) 272-2717
REM 4C31
Mail Box: REM 4C70

STAFF USE ONLY

Searcher: _____
Searcher Phone: 2-_____
Date Searcher Picked up: _____
Date Completed: _____
Searcher Prep/Rev. Time: _____
Online Time: _____

Type of Search

NA Sequence: # _____
AA Sequence: # _____
Structure: # _____
Bibliographic: _____
Litigation: _____
Patent Family: _____
Other: _____

Vendors and cost where applicable

STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other(Specify): _____

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 22, 2005, 20:07:37 ; Search time 145 Seconds
(without alignments)
5382.786 Million cell updates/sec

Title: US-10-071-370A-3
Perfect score: 477
Sequence: 1 atgctggccatgaagtgtt.....ctgagggaacccacctgtga 477

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	477	100.0	477	3	US-08-586-039B-38
2	477	100.0	477	4	US-09-699-769-38
3	414	86.8	417	3	US-08-586-039B-36
4	414	86.8	417	4	US-09-699-769-36
5	230.2	48.3	513	3	US-08-586-039B-44
6	230.2	48.3	513	4	US-09-699-769-44
7	229.8	48.2	465	3	US-08-586-039B-40
8	229.8	48.2	465	4	US-09-699-769-40
9	213.6	44.8	1643	4	US-09-949-016-1730
10	213.6	44.8	1645	2	US-08-039-297B-1
11	213.6	44.8	1645	4	US-09-949-016-381
12	213.2	44.7	450	3	US-08-586-039B-46
13	213.2	44.7	450	4	US-09-699-769-46
14	117	24.5	601	4	US-09-949-016-25532
15	117	24.5	601	4	US-09-949-016-59431
16	117	24.5	17730	4	US-09-949-016-12123
17	117	24.5	17731	4	US-09-949-016-13472
18	108.8	22.8	677	3	US-08-718-904-3
19	108.8	22.8	677	4	US-09-449-249-3
20	108.8	22.8	677	5	PCT-US95-10973A-27
21	108.8	22.8	728	3	US-08-718-904-4
22	108.8	22.8	728	4	US-09-449-249-4
23	108.8	22.8	728	5	PCT-US95-10973A-28
24	107.2	22.5	495	4	US-09-037-983C-14
25	107.2	22.5	516	3	US-08-784-551C-1
26	107.2	22.5	516	3	US-08-392-932-7
27	107.2	22.5	516	4	US-09-574-708A-3

28	107.2	22.5	516	4	US-09-037-983C-1	Sequence 1, Appli
29	107.2	22.5	516	4	US-09-428-909A-1	Sequence 1, Appli
30	107.2	22.5	516	4	US-09-392-931-3	Sequence 3, Appli
31	107.2	22.5	545	4	US-09-244-583-1	Sequence 1, Appli
32	107.2	22.5	642	3	US-09-392-932-9	Sequence 9, Appli
33	107.2	22.5	642	4	US-09-574-708A-7	Sequence 7, Appli
34	107.2	22.5	642	4	US-09-392-931-7	Sequence 7, Appli
35	107.2	22.5	648	3	US-08-586-039B-48	Sequence 48, Appli
36	107.2	22.5	648	4	US-09-699-769-48	Sequence 48, Appli
37	107.2	22.5	665	4	US-09-244-583-29	Sequence 29, Appli
38	107.2	22.5	699	3	US-09-392-932-10	Sequence 10, Appli
39	107.2	22.5	699	4	US-09-574-708A-9	Sequence 9, Appli
40	107.2	22.5	699	4	US-09-392-931-9	Sequence 9, Appli
41	107.2	22.5	1195	6	5240848-6	Patent No. 5240848
42	107.2	22.5	1195	6	5240848-6	Patent No. 5240848
43	106	22.2	649	3	US-08-586-039B-34	Sequence 34, Appli
44	106	22.2	649	4	US-09-699-769-34	Sequence 34, Appli
45	105.6	22.1	426	4	US-09-884-050-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-08-586-039B-38
; Sequence 38, Application US/08586039B
; Patent No. 6140073
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Thomas Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR C
; NUMBER OF SEQUENCES: 49
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: 126 E. Lincoln Avenue
; CITY: Rahway
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/586,039B
; FILING DATE: 16-JAN-1996
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/124,259
; FILING DATE: 20-SEP-1993
; APPLICATION NUMBER: 07/676,436
; FILING DATE: 28-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Hand, J. Mark
; REGISTRATION NUMBER: 36,545
; REFERENCE/DOCKET NUMBER: 18361DA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908) 594-3905
; TELEFAX: (908) 594-4720
; INFORMATION FOR SEQ ID NO: 38:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 477 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-586-039B-38

Query Match 100.0%; Score 477; DB 3; Length 477;
Best Local Similarity 100.0%; Pred. No. 7.5e-149; Indels 0; Gaps 0;
Matches 477; Conservative 0; Mismatches 0;

TELEFAX: (732) 594-4720
INFORMATION FOR SEQ ID NO: 38:
SEQUENCE CHARACTERISTICS:
LENGTH: 477 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
SEQUENCE DESCRIPTION: SEQ ID NO: 38:
US-09-699-769-38

Query Match 100.0%; Score 477; DB 4; Length 477;
Best Local Similarity 100.0%; Pred. No. 7.5e-149;
Matches 477; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGCTGCCATGAAGCTGTTCACTGCTTCTTGCCAGTCTCTAGCTGGTGGCTGTGCAC 60
Db 1 ATGCTGCCATGAAGCTGTTCACTGCTTCTTGCCAGTCTCTAGCTGGTGGCTGTGCAC 60
QY 61 TCCAGGGGGCCCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGCTTTCAAT 120
Db 61 TCCAGGGGGCCCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGCTTTCAAT 120
QY 121 GAAGTGTGGGGCCGCGAGCTGCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGCTTTCAAT 180
Db 121 GAAGTGTGGGGCCGCGAGCTGCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGCTTTCAAT 180
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Db 181 CACCTTAATGAAGTGTCTCATATATTCAGTCCGTCATGTCCTTCTGAGTGGCTGTAGT 240
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QY 301 CAGATCTTAAAGATTCCTCCCAATCGGATCCCAATTCCTACGTGGAGATGACATTTCTCT 360
Db 301 CAGATCTTAAAGATTCCTCCCAATCGGATCCCAATTCCTACGTGGAGATGACATTTCTCT 360
QY 361 CAGGATGTACTCTCGGAATGAGGCTTATTTCTGGAGACGACAAAGGAGGAGGAGAA 420
Db 361 CAGGATGTACTCTCGGAATGAGGCTTATTTCTGGAGACGACAAAGGAGGAGGAGAA 420
QY 421 ACCAAGGGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 477
Db 421 ACCAAGGGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 477

RESULT 3
US-08-586-039B-36
Sequence 36, Application US/08586039B
Patent No. 6140073
GENERAL INFORMATION:
APPLICANT: Bayne, Marvin L.
APPLICANT: Thomas Jr., Kenneth A.
TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR C
TITLE OF INVENTION: SUBUNIT
NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co., Inc.
STREET: 126 E. Lincoln Avenue
CITY: Rahway
STATE: New Jersey
COUNTRY: USA
ZIP: 07065-0900
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/586,039B
FILING DATE: 16-JAN-1996

QY 1 ATGCTGCCATGAAGCTGTTCACTGCTTCTTGCCAGTCTCTAGCTGGTGGCTGTGCAC 60
Db 1 ATGCTGCCATGAAGCTGTTCACTGCTTCTTGCCAGTCTCTAGCTGGTGGCTGTGCAC 60
QY 61 TCCAGGGGGCCCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGCTTTCAAT 120
Db 61 TCCAGGGGGCCCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGCTTTCAAT 120
QY 121 GAAGTGTGGGGCCGCGAGCTGCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGCTTTCAAT 180
Db 121 GAAGTGTGGGGCCGCGAGCTGCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGCTTTCAAT 180
QY 181 CACCTTAATGAAGTGTCTCATATATTCAGTCCGTCATGTCCTTCTGAGTGGCTGTAGT 240
Db 181 CACCTTAATGAAGTGTCTCATATATTCAGTCCGTCATGTCCTTCTGAGTGGCTGTAGT 240
QY 241 GGCTGCTGTGGTGAAGGCTGCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGCTTTCAAT 300
Db 241 GGCTGCTGTGGTGAAGGCTGCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGCTTTCAAT 300
QY 301 CAGATCTTAAAGATTCCTCCCAATCGGATCCCAATTCCTACGTGGAGATGACATTTCTCT 360
Db 301 CAGATCTTAAAGATTCCTCCCAATCGGATCCCAATTCCTACGTGGAGATGACATTTCTCT 360
QY 361 CAGGATGTACTCTCGGAATGAGGCTTATTTCTGGAGACGACAAAGGAGGAGGAGAA 420
Db 361 CAGGATGTACTCTCGGAATGAGGCTTATTTCTGGAGACGACAAAGGAGGAGGAGAA 420
QY 421 ACCAAGGGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 477
Db 421 ACCAAGGGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 477

RESULT 2
US-09-699-769-38
Sequence 38, Application US/09699769
Patent No. 6569434
GENERAL INFORMATION:
APPLICANT: Bayne, Marvin L.
APPLICANT: Thomas Jr., Kenneth A.
TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR C
TITLE OF INVENTION: SUBUNIT
NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co., Inc.
STREET: 126 E. Lincoln Avenue
CITY: Rahway
STATE: New Jersey
COUNTRY: USA
ZIP: 07065-0900
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/699,769
FILING DATE: 30-Oct-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/586,039
FILING DATE: 16-JAN-1996
APPLICATION NUMBER: 08/124,259
FILING DATE: 20-SEP-1993
APPLICATION NUMBER: 07/676,436
FILING DATE: 28-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Hand, J. Mark
REGISTRATION NUMBER: 36,545
REFERENCE/DOCKET NUMBER: 18361DB
TELECOMMUNICATION INFORMATION:
TELEPHONE: (732) 594-3905

CLASSIFICATION:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6
CURRENT APPLICATION DATA:
APPLICATION NUMBER: 08/124,259
FILING DATE: 20-SEP-1993
FILING DATE: 07/676,436
FILING DATE: 28-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Hand, J. Mark
REGISTRATION NUMBER: 36,545
REFERENCE/DOCKET NUMBER: 18361DA
TELEPHONE: (908) 594-3905
TELEFAX: (908) 594-4720
INFORMATION FOR SEQ ID NO: 36:
SEQUENCE CHARACTERISTICS:
LENGTH: 417 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-586-039B-36

Query Match 86.8%; Score 414; DB 3; Length 417;
Best Local Similarity 100.0%; Pred. No. 7.5e-128;
Matches 414; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGCTGCCCATGAAGCTGTTCACTTCTTTCAGGTCCTAGCTGGTTGGCTGTGCAC 60
DB 1 ATGCTGCCCATGAAGCTGTTCACTTCTTTCAGGTCCTAGCTGGTTGGCTGTGCAC 60
QY 61 TCCAGGGGGCCCTGCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGCTTTCAAT 120
DB 61 TCCAGGGGGCCCTGCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGCTTTCAAT 120
QY 121 GAAGTGTGGGGCCGCGAGCTACTCCGCGCAATCGAGAGCTGCTGTACATTCGAGATGAA 180
DB 121 GAAGTGTGGGGCCGCGAGCTACTCCGCGCAATCGAGAGCTGCTGTACATTCGAGATGAA 180
QY 181 CACCCTTAAGATGCTCATATATTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
DB 181 CACCCTTAAGATGCTCATATATTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
QY 241 GGCTGCTGTGGTGACGAGGGTCTGCACTGTGCGCGCTAAAGACAGCCACATCACTATG 300
DB 241 GGCTGCTGTGGTGACGAGGGTCTGCACTGTGCGCGCTAAAGACAGCCACATCACTATG 300
QY 301 CAGATCTTAAAGATTCCTCCCAATCGGGATCCACATTCCTTACCTGGAGATGACATTCCT 360
DB 301 CAGATCTTAAAGATTCCTCCCAATCGGGATCCACATTCCTTACCTGGAGATGACATTCCT 360
QY 361 CAGGATGTACTCTGCGAATCGAGGCTATTCTGGAGACGACAAAGGAGG 414
DB 361 CAGGATGTACTCTGCGAATCGAGGCTATTCTGGAGACGACAAAGGAGG 414

RESULT 4
US-09-699-769-36
Sequence 36, Application US/09699769
Patent No. 6569434
GENERAL INFORMATION:
APPLICANT: Bayne, Marvin L.
TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR
C SUBUNIT
NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co., Inc.
STREET: 126 E. Lincoln Avenue
CITY: Rahway
STATE: New Jersey
COUNTRY: USA
ZIP: 07065-0900
COMPUTER READABLE FORM:

QY 1 ATGCTGCCCATGAAGCTGTTCACTTCTTTCAGGTCCTAGCTGGTTGGCTGTGCAC 60
DB 1 ATGCTGCCCATGAAGCTGTTCACTTCTTTCAGGTCCTAGCTGGTTGGCTGTGCAC 60
QY 61 TCCAGGGGGCCCTGCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGCTTTCAAT 120
DB 61 TCCAGGGGGCCCTGCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGCTTTCAAT 120
QY 121 GAAGTGTGGGGCCGCGAGCTACTCCGCGCAATCGAGAGCTGCTGTACATTCGAGATGAA 180
DB 121 GAAGTGTGGGGCCGCGAGCTACTCCGCGCAATCGAGAGCTGCTGTACATTCGAGATGAA 180
QY 181 CACCCTTAAGATGCTCATATATTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
DB 181 CACCCTTAAGATGCTCATATATTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
QY 241 GGCTGCTGTGGTGACGAGGGTCTGCACTGTGCGCGCTAAAGACAGCCACATCACTATG 300
DB 241 GGCTGCTGTGGTGACGAGGGTCTGCACTGTGCGCGCTAAAGACAGCCACATCACTATG 300
QY 301 CAGATCTTAAAGATTCCTCCCAATCGGGATCCACATTCCTTACCTGGAGATGACATTCCT 360
DB 301 CAGATCTTAAAGATTCCTCCCAATCGGGATCCACATTCCTTACCTGGAGATGACATTCCT 360
QY 361 CAGGATGTACTCTGCGAATCGAGGCTATTCTGGAGACGACAAAGGAGG 414
DB 361 CAGGATGTACTCTGCGAATCGAGGCTATTCTGGAGACGACAAAGGAGG 414

RESULT 5
US-08-586-039B-44
Sequence 44, Application US/08586039B
Patent No. 6140073
GENERAL INFORMATION:
APPLICANT: Bayne, Marvin L.
TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR C

DB 418 GAAAGGAGAGACCCAGGGCAGGGGAAGAGGAGGAGAGAGAACCGA 466

RESULT 6

US-09-699-769-44
; Sequence 44, Application US/09699769
; Patent No. 6569434
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; Thomas Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR
; C SUBUNIT
; NUMBER OF SEQUENCES: 49
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: 126 E. Lincoln Avenue
; CITY: Rahway
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft word 6
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/699,769
; FILING DATE: 30-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/586,039
; FILING DATE: 16-JAN-1996
; APPLICATION NUMBER: 08/124,259
; FILING DATE: 20-SEP-1993
; APPLICATION NUMBER: 07/676,436
; FILING DATE: 28-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Hand, J. Mark
; REGISTRATION NUMBER: 36,545
; REFERENCE/DOCKET NUMBER: 18361DB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (732) 594-3905
; TELEFAX: (732) 594-4720
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 513 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 44:
US-09-699-769-44

	Query Match	48.3%	Score 230.2;	DB 4;	Length 513;
	Best Local Similarity	71.6%;	Pred. No. 1.9e-66;		
	Matches 336; Conservative	0;	Mismatches 118;	Indels 15;	Gaps 2;
Qy	1	ATGTTGCCAATGAAGCTGTTCATTCTTGCAGGTCCTAGTGCGTTGGCTGTGTCAC	60		
Dd	1	ATGCCGTCATGAAGCGTGTCCCCTTGCTTCTGCAGTCTCTGSCCGGCTGGCGCTGCCT	60		
Qy	61	TCC-----CAGGGGGGCCCTCTCTCTGGGAACAACCTCAACAGAANTGGAAATG	108		
Dd	61	GCTGTGCCCCCCCACGACAGTGGCCCTTCTCTCTGGGAACCGCTCGTCAGAGGTGGAATG	120		
Qy	109	GTGCGCTTTCATGAAGTGTGGGGCCGACACTACTCCGCGGCCAAATCGAGAAGCTGGTGPAC	168		
Dd	121	GTACCCCTTCAGGAAGTGTGGGGCCGACACTACTCCCGGGCGCTGGAGAGGCTGGTGAC	180		
Qy	169	ATTGCAGATGAACAACCCTTAATGAAGTGTCTCATATATTCAGTCCGCTCATGTGCTCTTG	228		
Dd	181	GTCTGTGTCAGTACCCACGAGGTGGAGCACATGTTTCAGCCCACTCTGTGTCTCCCTTG	240		

```

1 TITLE OF INVENTION: SUBUNIT
2
3 NUMBER OF SEQUENCES: 49
4 CORRESPONDENCE ADDRESS:
5 ADDRESSEE: Merck & Co., Inc.
6 STREET: 126 E. Lincoln Avenue
7 CITY: Rahway
8 STATE: New Jersey
9 COUNTRY: USA
10 ZIP: 07065-0900
11
12 COMPUTER READABLE FORM:
13 MEDIUM TYPE: Floppy disk
14 COMPUTER: IBM PC compatible
15 OPERATING SYSTEM: PC-DOS/MS-DOS
16 SOFTWARE: Microsoft Word 6
17
18 CURRENT APPLICATION DATA:
19 APPLICATION NUMBER: US/08/586,039B
20 FILING DATE: 16-JAN-1996
21 CLASSIFICATION:
22
23 PRIORITY APPLICATION DATA:
24 APPLICATION NUMBER: 08/124,259
25 FILING DATE: 20-SEP-1993
26 APPLICATION NUMBER: 07/676,436
27 FILING DATE: 28-MAR-1991
28 ATTORNEY/AGENT INFORMATION:
29 NAME: Hand, J. Mark
30 REGISTRATION NUMBER: 36,545
31 REFERENCE/DOCKET NUMBER: 18361DA
32 TELECOMMUNICATION INFORMATION:
33 TELEPHONE: (908) 594-3905
34 TELEFAX: (908) 594-4720
35 INFORMATION FOR SEQ ID NO: 44:
36 SEQUENCE CHARACTERISTICS:
37 LENGTH: 513 base pairs
38 TYPE: nucleic acid
39 STRANDEDNESS: single
40 TOPOLOGY: linear
41 MOLECULE TYPE: DNA (genomic)
42
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Query Match	48.3%;	Score 230.2;	DB 3;	Length 513;
Best Local Similarity	71.6%;	Pred. No. 1.9e-66;		
Matches 336;	Conservative 0;	Mismatches 118;	Indels 15;	Gaps 2;
QY	1	ATGCTGCCATGAAGCTGTTCACTTGTCTTTGAGGTCTCTAGTGTGGTGGCTGTGCAC	60	
DB	1	ATGCCGTCATAGGCTGTTCCTTGTCTCTGAGCTCTCTGGCCGGCTGGCGCTCGCT	60	
QY	61	TCC-----CAGGGGGCCCTGTCTCTCGGAACAACCTCAAACAGAAATCGAAAGT	108	
DB	61	GCTGTGCCCCCAGCAGTGGGCTTGTCTCTCTGGAAACGGCTCGTCAGAGGTGGAAGT	120	
QY	109	GTGCTTTTCAATGAAGTGTGGGGCGCAGCTACTGCCGGCCAAATGGAGAACCTGGTGTAC	168	
DB	121	GTACCTTTCAGGAAGTGTGGGGCCGACGCTACTGCCGGGGCGCTGGAGAGGCTGGTGAC	180	
QY	169	ATTGCAGATGAACACCCCTAAATGAGTGTCTCATATATTCACTCCGTCTAATGTCTCTCTG	228	
DB	181	GTCTGTCTCGAGTATCCCCAGCGAGGTGGAGCACATGTTACGCCCATCTCTGTCTCCCTG	240	
QY	229	AGTCGCTGTAGTGGCTGTCTGTGTGACGAGGCTGTGCACTGTGTGGCCCTAAAGACACC	288	
DB	241	CTGCGCTGCACGGCTGTCTGCGCGATGAGAATCTGCACCTGTGTCCGCTGGAGACGGCC	300	
QY	289	AACATCACTATGCAGATCTTAAAGATTCCCCCAATCGGGATCCACATTCTCTACCTGGAG	348	
DB	301	AATGTACCATGAGCTCTCTAAAGT----CCGTTCTGGGACCGGCCCTCTCTACGTGGAG	357	
QY	349	ATGACATTCTCTCAGATGTACTCTGCGAATCGAGGCTTAATTCTGGAGACGACAAGGCA	408	
DB	358	CTGACGTTCTCTCAGCACGTTCTCGCTCGCAATCCCGGCTCTCTCGGGAGGAAGATGAAGCG	417	
QY	409	GAARGAGGAAACCAAGGGGAAGAGCAAGCAAAAGCAAAACCCCAACAGA	457	

TOPOLOGY: linear					
MOLECULE TYPE: DNA (genomic)					
SEQUENCE DESCRIPTION: SEQ ID NO: 40:					
S-09-699-769-40	Query Match	48.2%;	Score 229.8;	DB 4;	Length 465;
	Best Local Similarity	72.3%;	Pred. No. 2.4e-66;		
	Matches 332; Conservative	0;	Mismatches 112;	Indels 15;	Gaps 2;
y	1 ATGCTGGCCATGAAGCTGTTCATTGCTTCTTTGACAGTGCTCCTAGCTGGTGGCTGTGCAC	60			
b	1 ATGCCGTCATGAGCTGTTCCTTGTCTCTCGAGCTCTCTGGCGGGCTGGCGCTGCCT	60			
y	61 TCC-----CAGGGGCCCTGTCTGCTGGAACTCAACAGAAAATGGAAGTG	108			
b	61 GCTGTGCCCCCCCAGCAGTGGGCTTGTCTGTGGAAACGGCTCTGTAGAGTGGAAATG	120			
y	109 GTGCTTTCAATGAAGTGTGGGGCGCAGCTACTCCCGGCCAATGGAGAAGCTCGTGTAC	168			
b	121 GTACCCTTCAGGAAGTGTGGGGCGCAGCTACTCCCGGGCGCTGGAGAGGCTGGTGGAC	180			
y	169 ATTGCAGATGAACACCCCTTAATGAAGTGTCTCATATATTTCAGTCCGTCAATGTCCTCTG	228			
b	181 GTCGTGTCGAGTAGTACCCAGCAGAGGTGGAGCACATGTTTCAGCCCACATCTGTGTCTCCCTG	240			
y	229 AGTCGCTGTAGTGGCTGCTGTGTGACGAGGGTCTGTGCACTGTGTGGCGCTAAAGACAGCC	288			
b	241 CTCGCTGTGACCGGGCTGTGCGCGATGAATAATCTGCACTGTGTCCGGTGGAGACGGCC	300			
y	289 AACATCACTATGACAGATCTTAAAGATTTCCCCCAATCCGGATTCACATCTCTACGTGAG	348			
b	301 AATGTCACCATGACAGCTCTTAAAGAT---CCGTTCTGGGACCGGCCCTCTCTACGTGAG	357			
y	349 ATGACATTCTTCAGAGATGACTCTTCGGAATCAGCGCTATTCTGGAGACGACAAGCA	408			
b	358 CTGACGTTCTCTCAGCACGFTTCCTCGGAATGCCGGCTCTCTGGGAGAGATGAGCCG	417			
y	409 GAAGAGGAGAAACCAAGGGGAAGAGAAAGCAA 447				
b	418 GAAAGAGGAGACCAAGGCGAGGAGGAGGAGA 456				
RESULT 9					
US-09-949-016-1730					
; Sequence 1730, Application US/09949016					
; Patent No. 6812339					
; GENERAL INFORMATION:					
; APPLICANT: VENTER, J. Craig et al.					
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED					
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF					
; FILE REFERENCE: CLO01307					
; CURRENT APPLICATION NUMBER: US/09/949,016					
; CURRENT FILING DATE: 2000-04-14					
; PRIOR APPLICATION NUMBER: 60/241,755					
; PRIOR FILING DATE: 2000-10-20					
; PRIOR APPLICATION NUMBER: 60/237,768					
; PRIOR FILING DATE: 2000-10-03					
; PRIOR APPLICATION NUMBER: 60/231,498					
; PRIOR FILING DATE: 2000-09-08					
; NUMBER OF SEQ ID NOS: 207012					
; SOFTWARE: FastSeq for Windows Version 4.0					
; SEQ ID NO 1730					
; LENGTH: 1643					
; TYPE: DNA					
; ORGANISM: Human					
US-09-949-016-1730					
Query Match					
Best Local Similarity 44.8%; Score 213.6; DB 4; Length 1643;					
Matches 332; Conservative 0; Mismatches 139; Indels 15; Gaps 2;					
Oy	1 ATGCTGGCCATGAAGCTGTTCATTGCTTCTTTGACAGTGCTCCTAGCTGGTGGCTGTGCAC	60			

TELEX: WUI64470
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1645 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-039-297B-1

Query Match 44.8%; Score 213.6; DB 2; Length 1645;
Best Local Similarity 68.3%; Pred. No. 1.3e-60;
Matches 332; Conservative 0; Mismatches 139; Indels 15; Gaps 2;

QY 1 ATGCTGCCATGAAGCTGTCTCTTCTGAGTCTCTAGCTGGTGGCTGGC 60
DB 322 ATCCGGTCATGAGGCTGTCCCTTCTCTGAGTCTCTGCGGGCTGGCGCTGCCT 381

QY 61 TCC-----CAGGGGGCCCTGTCTGTGGGAAACAACCTCAACAGAAATGGAAGTG 108
DB 382 GCTGTGCCCCCAGCAGTGGGCTTGTCTGTGGGAAACGGCTCGTCAGAGTGGAGTG 441

QY 109 GTGCCCTTCAATGAAGTGTGGGCGCAGCTACTGCGGCGCAATGGAGAGCTGGTGTAC 168
DB 442 GTACCCCTTCAGGAAGTGTGGGCGCAGCTACTGCGGCGCTGGAGAGCTGGTGGAC 501

QY 169 ATTGCAGATGAACACCTAATGAAGTGTCTCATATATTCAATTCAGTCCGTCTCTCTG 228
DB 502 GTGCTGTCCGAGTACCCAGCAGGTGGAGCATGTTTCAGCCCATCTCTGTCTCCCTG 561

QY 229 AGTCGCTGTAGTGGCTGTCTGTGACGAGGGTCTGCACCTGTGGCGCTAAAGAGCAGCC 288
DB 562 CTGCGCTGCACCGGCTGTGCGCGATGAGATCTGCATCTGTGCGCGTGGAGACGGCC 621

QY 289 AACATCACTATGAGATCTTAAAGATTCCTCCCAATCGGGATCCCACTCTACGTGGAG 348
DB 622 AATGTCACCATGACGCTCTTAAAGAT---CCGTTCTGGGGACCGGCCCTCTACGTGGAG 678

QY 349 ATGACATCTCTCAGATGTACTCTGCGAATCGAGGCTTCTTGGAGACGACAAAGGCA 408
DB 679 CTGACGTTCTCAGCAGCTCTCGTTCGGAATCGGCGCTCTGCGGAGAGATGAAGCCG 738

QY 409 GAAAGGAGGAAAAACCAAGGGAAGAGCAAGCAAAACCCCAACAGACTGAGGAACCC 468
DB 739 GAAAGTGGCGCATGCTGTCTCCCGAGGTAAACCCCTTGGAGGAGAGACCCCG 798

QY 469 CACCTG 474
DB 799 CACCCG 804

RESULT 11
US-09-949-016-381
; Sequence 381, Application US/09949016
; Patent No. 681239
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 381
; LENGTH: 1645
; TYPE: DNA
; ORGANISM: Human

US-09-949-016-381

Query Match 44.8%; Score 213.6; DB 4; Length 1645;
Best Local Similarity 68.3%; Pred. No. 1.3e-60;
Matches 332; Conservative 0; Mismatches 139; Indels 15; Gaps 2;

QY 1 ATGCTGCCATGAAGCTGTCTCTTCTGAGTCTCTAGCTGGTGGCTGGC 60
DB 322 ATCCGGTCATGAGGCTGTCCCTTCTCTGAGTCTCTGCGGGCTGGCGCTGCCT 381

QY 61 TCC-----CAGGGGGCCCTGTCTGTGGGAAACAACCTCAACAGAAATGGAAGTG 108
DB 382 GCTGTGCCCCCAGCAGTGGGCTTGTCTGTGGGAAACGGCTCGTCAGAGTGGAGTG 441

QY 109 GTGCCCTTCAATGAAGTGTGGGCGCAGCTACTGCGGCGCAATGGAGAGCTGGTGTAC 168
DB 442 GTACCCCTTCAGGAAGTGTGGGCGCAGCTACTGCGGCGCTGGAGAGCTGGTGGAC 501

QY 169 ATTGCAGATGAACACCTAATGAAGTGTCTCATATATTCAATTCAGTCCGTCTCTCTG 228
DB 502 GTGCTGTCCGAGTACCCAGCAGGTGGAGCATGTTTCAGCCCATCTCTGTCTCCCTG 561

QY 229 AGTCGCTGTAGTGGCTGTCTGTGACGAGGGTCTGCACCTGTGGCGCTAAAGAGCAGCC 288
DB 562 CTGCGCTGCACCGGCTGTGCGCGATGAGATCTGCATCTGTGCGCGTGGAGACGGCC 621

QY 289 AACATCACTATGAGATCTTAAAGATTCCTCCCAATCGGGATCCCACTCTACGTGGAG 348
DB 622 AATGTCACCATGACGCTCTTAAAGAT---CCGTTCTGGGGACCGGCCCTCTACGTGGAG 678

QY 349 ATGACATCTCTCAGATGTACTCTGCGAATCGAGGCTTCTTGGAGACGACAAAGGCA 408
DB 679 CTGACGTTCTCAGCAGCTCTCGTTCGGAATCGGCGCTCTGCGGAGAGATGAAGCCG 738

QY 409 GAAAGGAGGAAAAACCAAGGGAAGAGCAAGCAAAACCCCAACAGACTGAGGAACCC 468
DB 739 GAAAGTGGCGCATGCTGTCTCCCGAGGTAAACCCCTTGGAGGAGAGACCCCG 798

QY 469 CACCTG 474
DB 799 CACCCG 804

RESULT 12
US-08-586-039B-46
; Sequence 46, Application US/08586039B
; Patent No. 6140073
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Thomas Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR C
; TITLE OF INVENTION: SUBUNIT
; NUMBER OF SEQUENCES: 49
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: 126 E. Lincoln Avenue
; CITY: Rahway
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/586,039B
; FILING DATE: 16-JAN-1996
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/124,259
; FILING DATE: 20-SEP-1993
; APPLICATION NUMBER: 07/676,436

us-10-071-370a-3.rni

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COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Microsoft Word 6
 CURRENT APPLICATION NUMBER: US/09/699,769
 FILING DATE: 30-Oct-2000
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/586,039
 FILING DATE: 16-JAN-1996
 APPLICATION NUMBER: 08/124,259
 FILING DATE: 20-SEP-1993
 APPLICATION NUMBER: 07/676,436
 FILING DATE: 28-MAR-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Hand, J. Mark
 REGISTRATION NUMBER: 36,545
 REFERENCE/DOCKET NUMBER: 18361DA
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (732) 594-3905
 TELEFAX: (732) 594-4720
 INFORMATION FOR SEQ ID NO: 46:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 450 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 SEQUENCE DESCRIPTION: SEQ ID NO: 46:
 US-09-699-769-46

Query Match 44.7%; Score 213.2; DB 4; Length 450;
 Best Local Similarity 72.4%; Pred. No. 8.3e-61;
 Matches 310; Conservative 0; Mismatches 103; Indels 15; Gaps 2;
 QY 1 ATGCTGCCCATGAAGCTGTTCACTTCTTCTGAGGTCCTAGCTGGTGGCTGTGCAC 60
 Db 1 ATGCGCGTCATGAGGCTGTTCCCTTCTGCTGAGCTCTCTGCGGGCTGGCGCTGCCT 60
 QY 61 TCC-----CAGGGGGCCCTGCTCTCTGGAACAACCTCAACAGAAATGGAAGTG 108
 Db 61 GCTGTGCCCGCCAGCAGCTGGGGCTTGTCTCTGGGAACGGCTCTGAGAGTGAAGTG 120
 QY 109 GTGCGCTTTCATGAAGTGTGGGGCGCAGCTACTGCGGCCCAATGGAGAGCTGTGTAC 168
 Db 121 GTACCCCTTCAGGAAGTGTGGGGCGCAGCTACTGCGGGCGCTGGAGAGCTGTGTGAC 180
 QY 169 ATTGCAGATGAACACCCCTAATGAAGTGTCTCATATATTCACTCCGTATGTCTCTG 228
 Db 181 GTCGTCTCCAGTACCCAGCGAGGTGGAGCAGCATGTTTCAGCCCATCTCTGCTCCCTG 240
 QY 229 AGTCGCTGTAGTGGCTGCTGTGTCAGAGGGTCTGCACTGTGTGGCGCTAAAGACAGCC 288
 Db 241 CTGCGCTGCACCGGCTGCTGCGCGATGAGATCTGCACTGTGTGCCGTGGAGACGCGC 300
 QY 289 AACATCACTATGCAGATCTTAAAGATTCCCGCAATCGGGATCCACATCTCTACGTGGAG 348
 Db 301 AATGTCACTGTCAGCTCTCTAAAGAT---CCGTTCTGGGGACCGGCCCTCTCTACGTGGAG 357
 QY 349 ATGACATTTCTCAGGATGTACTCTGCGAATGCGAGCTTATTTCTGGAGACGACAAAGCA 408
 Db 358 CTGACGTTCTCTCAGCAGCGTTGCTGCGAATGCCGCTCTGCGGGAGAGATGAAGCGG 417
 QY 409 GAAAGGAG 416
 Db 418 GAAAGGTG 425

RESULT 14
 US-09-699-769-46
 ; Sequence 46, Application US/09699769
 ; Patent No. 6569434
 ; GENERAL INFORMATION:
 APPLICANT: Thomas Jr., Kenneth A.
 TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR
 C SUBUNIT
 NUMBER OF SEQUENCES: 49
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Merck & Co., Inc.
 STREET: 126 E. Lincoln Avenue
 CITY: Rahway
 STATE: New Jersey
 COUNTRY: USA
 ZIP: 07065-0900
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk

FILING DATE: 28-MAR-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Hand, J. Mark
 REGISTRATION NUMBER: 36,545
 REFERENCE/DOCKET NUMBER: 18361DA
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (908) 594-3905
 TELEFAX: (908) 594-4720
 INFORMATION FOR SEQ ID NO: 46:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 450 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 US-08-586-039B-46
 Query Match 44.7%; Score 213.2; DB 3; Length 450;
 Best Local Similarity 72.4%; Pred. No. 8.3e-61;
 Matches 310; Conservative 0; Mismatches 103; Indels 15; Gaps 2;
 QY 1 ATGCTGCCCATGAAGCTGTTCACTTCTTCTGAGGTCCTAGCTGGTGGCTGTGCAC 60
 Db 1 ATGCGCGTCATGAGGCTGTTCCCTTCTGCTGAGCTCTCTGCGGGCTGGCGCTGCCT 60
 QY 61 TCC-----CAGGGGGCCCTGCTCTCTGGAACAACCTCAACAGAAATGGAAGTG 108
 Db 61 GCTGTGCCCGCCAGCAGCTGGGGCTTGTCTCTGGAACGGCTCTGAGAGTGAAGTG 120
 QY 109 GTGCGCTTTCATGAAGTGTGGGGCGCAGCTACTGCGGCCCAATGGAGAGCTGTGTAC 168
 Db 121 GTACCCCTTCAGGAAGTGTGGGGCGCAGCTACTGCGGGCGCTGGAGAGCTGTGTGAC 180
 QY 169 ATTGCAGATGAACACCCCTAATGAAGTGTCTCATATATTCACTCCGTATGTCTCTG 228
 Db 181 GTCGTCTCCAGTACCCAGCGAGGTGGAGCAGCATGTTTCAGCCCATCTCTGCTCCCTG 240
 QY 229 AGTCGCTGTAGTGGCTGCTGTGTCAGAGGGTCTGCACTGTGTGGCGCTAAAGACAGCC 288
 Db 241 CTGCGCTGCACCGGCTGCTGCGCGATGAGATCTGCACTGTGTGCGGTGGAGACGCGC 300
 QY 289 AACATCACTATGCAGATCTTAAAGATTCCCGCAATCGGGATCCACATCTCTACGTGGAG 348
 Db 301 AATGTCACTGTCAGCTCTCTAAAGAT---CCGTTCTGGGACCGGCCCTCTCTACGTGGAG 357
 QY 349 ATGACATTTCTCAGGATGTACTCTGCGAATGCGAGCTTATTTCTGGAGACGACAAAGCA 408
 Db 358 CTGACGTTCTCTCAGCAGCGTTGCTGCGAATGCCGCTCTGCGGGAGAGATGAAGCGG 417
 QY 409 GAAAGGAG 416
 Db 418 GAAAGGTG 425

RESULT 13
 US-09-699-769-46
 ; Sequence 46, Application US/09699769
 ; Patent No. 6569434
 ; GENERAL INFORMATION:
 APPLICANT: Thomas Jr., Kenneth A.
 TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR
 C SUBUNIT
 NUMBER OF SEQUENCES: 49
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Merck & Co., Inc.
 STREET: 126 E. Lincoln Avenue
 CITY: Rahway
 STATE: New Jersey
 COUNTRY: USA
 ZIP: 07065-0900
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk

APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 25532
LENGTH: 601
TYPE: DNA
ORGANISM: Human
US-09-949-016-25532

Query Match 24.5%; Score 117; DB 4; Length 601;
Best Local Similarity 73.2%; Pred. No. 1.3e-28;
Matches 150; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

Qy	101	TGGAAGTGGTGCCTTCAATGAAGTGTGGGGCCGACGCTACTGCCGCCCAATGGAGAAGC	160
Db	563	TCCAGTGGTACCTTTCCAGGAAGTGTGGGGCCGACGCTACTGCCGGGGCGCTGGAGAGGC	504
Qy	161	TGGTGATACATTGCAGATGAACACCCCTAATGAAGTGTCTCATATATTTCAGTCCGTCATGTG	220
Db	503	TGGTGNAGTCGTGTCGAGTACCCAGCAGGTGGAGCACATGTTTCAGCCCATCTCTGTG	444
Qy	221	TCCTTCTGAGTCGCTGTAGTGGTGTGGTGACGAGGCTCTGCACTGTGTGGCGCTAA	280
Db	443	TCTCCCTGTGCGCTGCACCGGCTGTGCGCGATGAGAATCTGCACTGTGTGCCGTGG	384
Qy	281	AGACAGCCACATCACTATGCAGAT	305
Db	383	AGACGGCCAATGTACCATGCAGGT	359

RESULT 15

US-09-949-016-59431/c
Sequence 59431, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 59431
LENGTH: 601
TYPE: DNA
ORGANISM: Human
US-09-949-016-59431

Query Match 24.5%; Score 117; DB 4; Length 601;
Best Local Similarity 73.2%; Pred. No. 1.3e-28;
Matches 150; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

Qy	101	TGGAAGTGGTGCCTTCAATGAAGTGTGGGGCCGACGCTACTGCCGCCCAATGGAGAAGC	160
Db	563	TCCAGTGGTACCTTTCCAGGAAGTGTGGGGCCGACGCTACTGCCGGGGCGCTGGAGAGGC	504

Qy	161	TGGTGATACATTGCAGATGAACACCCCTAATGAAGTGTCTCATATATTTCAGTCCGTCATGTG	220
Db	503	TGGTGGACGTGCTGTCCGAGTACCCAGCAGGTGGAGCACATGTTTCAGCCCATCTCTGTG	444
Qy	221	TCCTTCTGAGTCGCTGTAGTGGTGTGGTGACGAGGCTCTGCACTGTGTGGCGCTAA	280
Db	443	TCTCCCTGTGCTGCTGCACCGGCTGTGCGCGATGAGAACTCTGCACTGTGTGCCGTGG	384
Qy	281	AGACAGCCCAACATCACTATGCAGAT	305
Db	383	AGACGGCCAATGTACCATGCAGGT	359

Search completed: February 23, 2005, 00:39:41
Job time : 149 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 23, 2005, 00:06:07 ; Search time 445 Seconds
(without alignments)
6335.521 Million cell updates/sec

Title: US-10-071-370A-3
Perfect score: 477
Sequence: 1 atctggccatgaagtgtt.....ctgaggaaacccctgtga 477

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 5384158 seqs, 2955248155 residues

Total number of hits satisfying chosen parameters: 10768316

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:
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2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:
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7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:
9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:
10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:
11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:
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17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq:
18: /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq:
19: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:
20: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:
21: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:
22: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	477	100.0	477	14	US-10-071-370A-3
2	414	86.8	417	14	US-10-071-370A-5
3	213.6	44.8	1645	9	US-09-795-006A-114
4	213.6	44.8	1645	15	US-10-262-538-27
5	213.6	44.8	1645	15	US-10-007-926A-103
6	213.6	44.8	1645	15	US-10-101-510-590
7	213.6	44.8	1645	16	US-10-021-660-35
8	213.6	44.8	1645	17	US-10-211-462-114
9	213.6	44.8	1645	18	US-10-669-176-27
10	213.6	44.8	1645	18	US-10-772-927A-15
11	213.2	44.7	468	17	US-10-343-825A-11
					Sequence 3, Appli
					Sequence 5, Appli
					Sequence 114, App
					Sequence 27, Appl
					Sequence 103, App
					Sequence 590, App
					Sequence 35, Appl
					Sequence 114, App
					Sequence 27, Appl
					Sequence 15, Appl
					Sequence 11, Appl

12	187.6	39.3	450	17	US-10-343-825A-12	Sequence 12, Appl
13	168.4	35.3	475	10	US-09-918-995-1813	Sequence 1813, Ap
14	147.4	30.9	474	17	US-10-343-825A-13	Sequence 13, Appl
15	121.8	25.5	474	17	US-10-343-825A-14	Sequence 14, Appl
16	109	22.9	1104	10	US-09-832-355A-93	Sequence 93, Appl
17	108.8	22.8	670	17	US-10-294-228-5	Sequence 5, Appli
18	108.8	22.8	677	15	US-10-189-360-3	Sequence 3, Appli
19	108.8	22.8	728	15	US-10-189-360-4	Sequence 4, Appli
20	108.4	22.7	576	17	US-10-419-045-3	Sequence 3, Appli
21	107.6	22.6	645	17	US-10-152-319A-1958	Sequence 1958, Ap
22	107.6	22.6	645	18	US-10-664-705-3	Sequence 3, Appli
23	107.2	22.5	516	9	US-09-812-133-1	Sequence 1, Appli
24	107.2	22.5	516	13	US-10-083-817-7	Sequence 7, Appli
25	107.2	22.5	516	14	US-10-268-447-3	Sequence 3, Appli
26	107.2	22.5	516	16	US-10-319-828-1	Sequence 1, Appli
27	107.2	22.5	516	17	US-10-418-523-3	Sequence 3, Appli
28	107.2	22.5	516	18	US-10-749-706-7	Sequence 7, Appli
29	107.2	22.5	545	15	US-10-293-157-1	Sequence 1, Appli
30	107.2	22.5	642	13	US-10-083-817-9	Sequence 9, Appli
31	107.2	22.5	642	14	US-10-268-447-7	Sequence 7, Appli
32	107.2	22.5	642	17	US-10-418-529-7	Sequence 7, Appli
33	107.2	22.5	642	18	US-10-749-706-9	Sequence 9, Appli
34	107.2	22.5	645	17	US-10-370-291-5	Sequence 5, Appli
35	107.2	22.5	648	17	US-10-294-228-4	Sequence 4, Appli
36	107.2	22.5	665	15	US-10-293-157-29	Sequence 29, Appl
37	107.2	22.5	696	17	US-10-370-291-7	Sequence 7, Appli
38	107.2	22.5	699	13	US-10-083-817-10	Sequence 10, Appl
39	107.2	22.5	699	14	US-10-268-447-9	Sequence 9, Appli
40	107.2	22.5	699	17	US-10-418-529-9	Sequence 9, Appli
41	107.2	22.5	699	18	US-10-749-706-10	Sequence 10, Appl
42	107.2	22.5	785	17	US-10-191-997-114	Sequence 114, App
43	107.2	22.5	815	9	US-09-795-006A-146	Sequence 146, App
44	107.2	22.5	1723	19	US-10-615-343-14	Sequence 14, Appl
45	105.8	22.2	1116	10	US-09-832-355A-88	Sequence 88, Appl

ALIGNMENTS

RESULT 1
US-10-071-370A-3
; Sequence 3, Application US/10071370A
; Publication No. US20030045471A1
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Thomas, Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR
; TITLE OF INVENTION: II
; FILE REFERENCE: 18199CB
; CURRENT APPLICATION NUMBER: US/10/071,370A
; CURRENT FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: 09/326,879
; PRIOR FILING DATE: 1999-06-07
; PRIOR APPLICATION NUMBER: 09/038,199
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 08/299,185
; PRIOR FILING DATE: 1994-08-31
; PRIOR APPLICATION NUMBER: 08/000,834
; PRIOR FILING DATE: 1993-01-05
; PRIOR APPLICATION NUMBER: 07/586,638
; PRIOR FILING DATE: 1990-09-21
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 477
; TYPE: DNA
; ORGANISM: rat
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(477)
US-10-071-370A-3

Wed Feb 23 08:36:36 2005

Query Match 100.0%; Score 477; DB 14; Length 477;
Best Local Similarity 100.0%; Pred. No. 1.1e-155; Indels 0; Gaps 0;
Matches 477; Conservative 0; Mismatches 0;
Qy 1 ATGCTGCCATGAAGCTGTTCACTTCTCTTGAGGCTCCTAGCTGGTGGCTGTGCAC 60
Db 1 ATGCTGCCATGAAGCTGTTCACTTCTCTTGAGGCTCCTAGCTGGTGGCTGTGCAC 60
Qy 61 TCCAGGGGGCCCTGTCTGTGGGAAACAATCAACAGAAATGGAAGTGTGCTTTCAAT 120
Db 61 TCCAGGGGGCCCTGTCTGTGGGAAACAATCAACAGAAATGGAAGTGTGCTTTCAAT 120
Qy 121 GAAGTGTGGGGCCGAGCTACTCCCGCCCAATCGAGAGCTGTGTACATTCAGATGAA 180
Db 121 GAAGTGTGGGGCCGAGCTACTCCCGCCCAATCGAGAGCTGTGTACATTCAGATGAA 180
Qy 181 CACCTTAATGAAGTGTCTCATATATTCAAGTCCGTCATGTCTCTGAGTGGCTGTAGT 240
Db 181 CACCTTAATGAAGTGTCTCATATATTCAAGTCCGTCATGTCTCTGAGTGGCTGTAGT 240
Qy 241 GGCTGTGTGTGACGAGGCTGTGCACTGTGTGGCGTAAAGACAGCAACATCACTATG 300
Db 241 GGCTGTGTGTGACGAGGCTGTGCACTGTGTGGCGTAAAGACAGCAACATCACTATG 300
Qy 301 CAGATCTTAAGATTCCCGCCCAATCGGGATCCACATTCCTACGTGGAGATGACATTTCT 360
Db 301 CAGATCTTAAGATTCCCGCCCAATCGGGATCCACATTCCTACGTGGAGATGACATTTCT 360
Qy 361 CAGGATGTACTCTCGAATCAGGCTTATCTTGAGACGACAAAGGAGAGAGGAAA 420
Db 361 CAGGATGTACTCTCGAATCAGGCTTATCTTGAGACGACAAAGGAGAGAGGAAA 420
Qy 421 ACCAAGGGGAG 477
Db 421 ACCAAGGGGAG 477

RESULT 2
US-10-071-370A-5
; Sequence 5, Application US/10071370A
; Publication No. US20030045471A1
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Conn, Gregory L.
; APPLICANT: Thomas, Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR
; TYPE OF INVENTION: II
; FILE REFERENCE: 18199CB
; CURRENT APPLICATION NUMBER: US/10/071.370A
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: 09/326,879
; PRIOR FILING DATE: 1998-06-07
; PRIOR APPLICATION NUMBER: 09/038,199
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 08/299,185
; PRIOR FILING DATE: 1994-08-31
; PRIOR APPLICATION NUMBER: 08/000,834
; PRIOR FILING DATE: 1993-01-05
; PRIOR APPLICATION NUMBER: 07/586,638
; PRIOR FILING DATE: 1990-09-21
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 417
; TYPE: DNA
; ORGANISM: rat
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(417)
US-10-071-370A-5

Query Match 86.8%; Score 414; DB 14; Length 417;
Best Local Similarity 100.0%; Pred. No. 1.1e-133;

Matches 414; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ATGCTGCCATGAAGCTGTTCACTTCTCTTGAGGCTCCTAGCTGGTGGCTGTGCAC 60
Db 1 ATGCTGCCATGAAGCTGTTCACTTCTCTTGAGGCTCCTAGCTGGTGGCTGTGCAC 60
Qy 61 TCCAGGGGGCCCTGTCTGTGGGAAACAATCAACAGAAATGGAAGTGTGCTTTCAAT 120
Db 61 TCCAGGGGGCCCTGTCTGTGGGAAACAATCAACAGAAATGGAAGTGTGCTTTCAAT 120
Qy 121 GAAGTGTGGGGCCGAGCTACTCCCGCCCAATCGAGAGCTGTGTACATTCAGATGAA 180
Db 121 GAAGTGTGGGGCCGAGCTACTCCCGCCCAATCGAGAGCTGTGTACATTCAGATGAA 180
Qy 181 CACCTTAATGAAGTGTCTCATATATTCAAGTCCGTCATGTCTCTGAGTGGCTGTAGT 240
Db 181 CACCTTAATGAAGTGTCTCATATATTCAAGTCCGTCATGTCTCTGAGTGGCTGTAGT 240
Qy 241 GGCTGTGTGTGACGAGGCTGTGCACTGTGTGGCGTAAAGACAGCAACATCACTATG 300
Db 241 GGCTGTGTGTGACGAGGCTGTGCACTGTGTGGCGTAAAGACAGCAACATCACTATG 300
Qy 301 CAGATCTTAAGATTCCCGCCCAATCGGGATCCACATTCCTACGTGGAGATGACATTTCT 360
Db 301 CAGATCTTAAGATTCCCGCCCAATCGGGATCCACATTCCTACGTGGAGATGACATTTCT 360
Qy 361 CAGGATGTACTCTCGAATCAGGCTTATCTTGAGACGACAAAGGAGAGAGG 414
Db 361 CAGGATGTACTCTCGAATCAGGCTTATCTTGAGACGACAAAGGAGAGAGG 414

RESULT 3
US-09-795-006A-114
; Sequence 114, Application US/09795006A
; Patent No. US20020151680A1
; GENERAL INFORMATION:
; APPLICANT: Alitalo et al
; TITLE OF INVENTION: MATERIALS AND METHODS INVOLVING HYBRID VASCULAR
; FILE REFERENCE: 28967/35977B
; CURRENT APPLICATION NUMBER: US/09/795,006A
; CURRENT FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: US 60/205,331
; PRIOR FILING DATE: 2000-05-18
; PRIOR APPLICATION NUMBER: US 60/185,205
; PRIOR FILING DATE: 2000-02-25
; NUMBER OF SEQ ID NOS: 175
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 114
; LENGTH: 1645
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (322)..(768)
US-09-795-006A-114

Query Match 44.8%; Score 213.6; DB 9; Length 1645;
Best Local Similarity 68.3%; Pred. No. 2e-63;
Matches 332; Conservative 0; Mismatches 139; Indels 15; Gaps 2;
Qy 1 ATGCTGCCATGAAGCTGTTCACTTCTCTTGAGGCTCCTAGCTGGTGGCTGTGCAC 60
Db 322 ATGCTGCCATGAAGCTGTTCCCTTCTCTGAGCTCCTGCGGGCTGGCGCTGCCT 381
Qy 61 TCC-----CAGGGGGCCCTGTCTGCTGGGAAACAATCAACAGAAATGGAAGTG 108
Db 382 GCTGTGCCCCCCCCCAGCAGAGTGGGCTTGTCTGCTGGGAAACGGCTCTCAGAGTGGAGTG 441
Qy 109 GTGCTTTTCAATGAAGTGTGGGGCCGAGCTACTGCGGGCCCAATGGAGAGCTGGTGTAC 168
Db 442 GTACCTTCCAGGAAGTGTGGGGCCGAGCTACTGCGGGCCGCTGAGAGAGCTGGTGTAC 501

QY 169 ATTGCAGATGAACACCCCTAATGAAGTCTCTCATATATTCAGTCCGTGCTGCTTCTG 228
 Db 502 GTGCTGTCAGATACCCACGAGGTGGAGACATGTTTACGCCCATCTGCTGCTCCCTG 561
 QY 229 AGTCGCTGTAGTGGCTGTGTGTGACGAGGGTCTGCACCTGTGTGGCGCTAAAGACAGCC 288
 Db 562 CTGCGCTGCACCGGCTGTGTGCGCGATGAAATCTGCACCTGTGTGCGGTGGAGACGGCC 621
 QY 289 AACATCACTATGACAGATCTTAAAGATTCGCCCAATCGGGATCCATTCCTACGTGGAG 348
 Db 622 AATGTCAACATGACGCTCTTAAAGAT---CCGTTCTGGGACCGGCCCTCTACGTGGAG 678
 QY 349 ATGACATTTCTCAGATGACTCTCGAATGACGGCTATTCTGGAGACGACAAAGGCA 408
 Db 679 CTGACGTTCTCTCAGACAGTTCCTCGAATCGCGCTCTCGCGGAGAGATGAAGCCG 738
 QY 409 GAAAGGAGGAAAAACCAAGGGGAAGAGCAAGCAAAACCCACAGACTGAGGAACCC 468
 Db 739 GAAAGGTGCGCGATGCTGTTCCTCCGAGGTAAACCCCTTGGAGGAGAGACCCCG 798
 QY 469 CACCTG 474
 Db 799 CACCCG 804

RESULT 4

US-10-262-538-27
 ; Sequence 27, Application US/10262538
 ; Publication No. US20030113324A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Alitalo et al
 ; TITLE OF INVENTION: NEUROFILIN/VEGF-C/VEGFR-3 MATERIALS AND METHODS
 ; FILE REFERENCE: 28967/37564
 ; CURRENT APPLICATION NUMBER: US/10/262,538
 ; PRIORITY FILING DATE: 2002-09-30
 ; NUMBER OF SEQ ID NOS: 33
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO 27
 ; LENGTH: 1645
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (322)..(771)
 US-10-262-538-27

Query Match 44.8%; Score 213.6; DB 15; Length 1645;
 Best Local Similarity 68.3%; Pred. No. 2e-63;
 Matches 332; Conservative 0; Mismatches 139; Indels 15; Gaps 2;

QY 1 ATGCTGCCATGAAGCTGTTCACTTGTCTTTCAGGCTCTAGCTGGTGGCTGTGCAC 60
 Db 322 ATGCGGTCTATGAGGCTGTTCCCTTGTCTTCTGAGCTCTCTGCGGGCTGGCGCTCT 381
 QY 61 TCC-----CAGGGGGCCCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTG 108
 Db 382 GCTGTGCCCCCAGCAGTGGGCTTGTCTGCTGGGAACGGCTCGTCAGAGTGGAAAGTG 441
 QY 109 GTGCTTTTCAATGAAGTGTGGGCGCGAGCTACTGCGGGCCCAATGGAGAAGCTGGTGTAC 168
 Db 442 GTACCTTTCAGGAAGTGTGGGCGCGAGCTACTGCGGGCGCTGGAGAGCTGGTGGAC 501
 QY 169 ATTCAGATGAACCCCTAATGAAGTGTCTCATATATTCAGTCCGTGCTGCTTCTG 228
 Db 502 GTGCTGTCAGATGAGTGGGCGCGAGCTACTGCGGGCGCTGGAGAGCTGGTGGAC 561
 QY 229 AGTCGCTGTAGTGGCTGTGTGTGACGAGGGTCTGCACCTGTGTGGCGCTAAAGACAGCC 288
 Db 562 CTGCGTGCACCGGCTGTGTGCGGATGAGAAATCTGCACCTGTGTGCGGTGGAGACGGCC 621
 QY 289 AACATCACTATGACAGATCTTAAAGATTCGCCCAATCGGGATCCATTCCTACGTGGAG 348
 Db 622 AATGTCAACATGACGCTCTTAAAGAT---CCGTTCTGGGACCGGCCCTCTACGTGGAG 678

QY 349 ATGACATTTCTCAGATGACTCTCGAATGACGGCTATTCTGAGACGACAAAGGCA 408
 Db 679 CTGACGTTCTCTCAGACAGTTCCTCGAATCGCGCTCTCGCGGAGAGATGAAGCCG 738
 QY 409 GAAAGGAGGAAAAACCAAGGGGAAGAGCAAGCAAAACCCACAGACTGAGGAACCC 468
 Db 739 GAAAGGTGCGCGATGCTGTTCCTCCGAGGTAAACCCCTTGGAGGAGAGACCCCG 798
 QY 469 CACCTG 474
 Db 799 CACCCG 804

RESULT 5

US-10-007-926A-103
 ; Sequence 103, Application US/10007926A
 ; Publication No. US20030143539A1
 ; GENERAL INFORMATION:
 ; APPLICANT: BERTUCCI, FRANCOIS
 ; APPLICANT: HOULGATTE, REMI
 ; APPLICANT: BIRNBAUM, DANIEL
 ; APPLICANT: NGUYEN, CATHERINE
 ; APPLICANT: VIENS, PATRICE
 ; APPLICANT: FERT, VINCENT
 ; TITLE OF INVENTION: GENE EXPRESSION PROFILING OF PRIMARY BREAST CARCINOMAS
 ; FILE REFERENCE: 1546-R-00
 ; CURRENT APPLICATION NUMBER: US/10/007,926A
 ; PRIORITY FILING DATE: 2001-12-07
 ; PRIOR APPLICATION NUMBER: 60/254,090
 ; PRIOR FILING DATE: 2000-12-08
 ; NUMBER OF SEQ ID NOS: 468
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 103
 ; LENGTH: 1645
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; OTHER INFORMATION: placental growth factor, vascular
 ; OTHER INFORMATION: endothelial growth factor-related protein (PGF)
 ; OTHER INFORMATION: gene.
 US-10-007-926A-103

Query Match 44.8%; Score 213.6; DB 15; Length 1645;
 Best Local Similarity 68.3%; Pred. No. 2e-63;
 Matches 332; Conservative 0; Mismatches 139; Indels 15; Gaps 2;

QY 1 ATGCTGCCATGAAGCTGTTCACTTGTCTTTCAGGCTCTAGCTGGTGGCTGTGCAC 60
 Db 322 ATGCGGTCTATGAGGCTGTTCCCTTGTCTTCTGAGCTCTCTGCGGGCTGGCGCTCT 381
 QY 61 TCC-----CAGGGGGCCCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTG 108
 Db 382 GCTGTGCCCCCAGCAGTGGGCTTGTCTGCTGGGAACGGCTCGTCAGAGTGGAAAGTG 441
 QY 109 GTGCTTTTCAATGAAGTGTGGGCGCGAGCTACTGCGGGCCCAATGGAGAAGCTGGTGTAC 168
 Db 442 GTACCTTTCAGGAAGTGTGGGCGCGAGCTACTGCGGGCGCTGGAGAGCTGGTGGAC 501
 QY 169 ATTCAGATGAACCCCTAATGAAGTGTCTCATATATTCAGTCCGTGCTGCTTCTG 228
 Db 502 GTGCTGTCAGATGAGTGGGCGCGAGCTACTGCGGGCGCTGGAGAGCTGGTGGAC 561
 QY 229 AGTCGCTGTAGTGGCTGTGTGTGACGAGGGTCTGCACCTGTGTGGCGCTAAAGACAGCC 288
 Db 562 CTGCGTGCACCGGCTGTGTGCGGATGAGAAATCTGCACCTGTGTGCGGTGGAGACGGCC 621
 QY 289 AACATCACTATGACAGATCTTAAAGATTCGCCCAATCGGGATCCATTCCTACGTGGAG 348
 Db 622 AATGTCAACATGACGCTCTTAAAGAT---CCGTTCTGGGACCGGCCCTCTACGTGGAG 678
 QY 349 ATGACATTTCTCAGATGACTCTCGAATGACGGCTATTCTGAGACGACAAAGGCA 408

Db 679 CTGACGTTCTCTCAGCAGGTTTCGCTGCGAATGCGGCTCTGCGGGAGAAATGAAGCCG 738
Qy 409 GAAAGGAGAAACCAAGGGAGAGGAGCAAGCAAAACCCACAGACTGAGGAACCC 468
Db 739 GAAAGGTGGCGGATGCTGTTCCCGGAGGTAAACCCACCCCTTGGAGAGAGACCCCG 798
Qy 469 CACCTG 474
Db 799 CACCCG 804

RESULT 6
US-10-101-510-590
; Sequence 590, Application US/10101510
; Publication No. US20030148295A1
; GENERAL INFORMATION:
; APPLICANT: WAN, JACKSON
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
; FILE REFERENCE: 15117.0012
; CURRENT APPLICATION NUMBER: US/10/101,510
; PRIOR FILING DATE: 2002-03-20
; PRIOR APPLICATION NUMBER: 60/276,947
; PRIOR FILING DATE: 2001-03-20
; NUMBER OF SEQ ID NOS: 805
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 590
; LENGTH: 1645
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-101-510-590

Query Match 44.8%; Score 213.6; DB 15; Length 1645;
Best Local Similarity 68.3%; Pred. No. 2e-63;
Matches 332; Conservative 0; Mismatches 139; Indels 15; Gaps 2;
Qy 1 ATGCTGCCATGAAGCTGTTCACTTGTCTTCTCAGGTCTCTAGCTGGTGGTGGCTGTGCAC 60
Db 322 ATGCGGTCTATGAGGCTGTTCCCTTGTCTCTGAGCTCTCTGCGGGCTGGCGTGCCT 381
Qy 61 TCC-----CHAGGGGGCCCTGTCTGCTGGGAACAACTCAACAGAAATGGAAGTG 108
Db 382 GCTGTGCCCCCAGCAGTGGGCTTGTCTGCTGGGAACGGCTCGTCAGAGGTGGAAGTG 441
Qy 109 GTGCTTTCATGAAGTGTGGGCGCGAGTACTGCGGCGCAATGGAGAGCTGTGTAC 168
Db 442 GTACCTTCCAGGAAGTGTGGGCGCGAGTACTGCGGCGCAATGGAGAGCTGTGTAC 501
Qy 169 ATTGAGATGAACACCCCTAATGAAGTGTCTCATATATTCAGTCCGTATGTCTCTCTG 228
Db 502 GTGCTGCGAGTACCCAGCGAGTGGAGCACAATGTCAGCCCATCTGTCTCTCTG 561
Qy 229 AGTCGCTGTAGTGGCTGTGTGGAAGGAGTGTGCACTGTGTGGCGCTTAAAGACGCC 288
Db 562 CTGCGCTGCACCGGCTGTGCGGCGATGAGAATCTGCACTGTGTGGCGCTTCTCTCTG 621
Qy 289 AACATCACTATGAGATCTTAAAGATTCCTCCCATTCGGATCCACATTCCTACGTGGAG 348
Db 622 AATGTCACCATGAGCTCTTAAAGAT---CGTTCTGGGGACCGGCCCTCTCTACGTGGAG 678
Qy 349 ATGACATCTCTCAGAGTGTACTCTGCGAATGCGAGGCTTATTCGGAGACGCAAGGCA 408
Db 679 CTGACGTTCTCTCAGCAGCTTCGCTGCGAATGCGGCTCTGCGGAGAGATGAAGCCG 738
Qy 409 GAAAGGAGAAACCAAGGGAGAGGAGCAAAACCCACAGACTGAGGAACCC 468
Db 739 GAAAGGTGGCGGATGCTGTTCCCGGAGGTAAACCCACCCCTTGGAGAGAGACCCCG 798
Qy 469 CACCTG 474
Db 799 CACCCG 804

RESULT 8
US-10-211-462-114
; Sequence 114, Application US/10211462
; Publication No. US20040033495A1

RESULT 7
US-10-021-660-35
; Sequence 35, Application US/10021660
; Publication No. US20030152926A1
; GENERAL INFORMATION:
; APPLICANT: Murray, Richard
; APPLICANT: Glynn, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: EOS Biotechnology, Inc.
; TITLE OF INVENTION: No. US20030152926A1 Methods of Diagnosis of Angiogenesis,
; TITLE OF INVENTION: Compositions and Methods of Screening for Angiogenesis
; TITLE OF INVENTION: Modulators
; FILE REFERENCE: 018501-000710US
; CURRENT APPLICATION NUMBER: US/10/021,660
; CURRENT FILING DATE: 2001-12-06
; PRIOR FILING DATE: 2001-02-14
; PRIOR APPLICATION NUMBER: US 09/637,977
; PRIOR FILING DATE: 2000-08-11
; NUMBER OF SEQ ID NOS: 135
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 1645
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-021-660-35

Query Match 44.8%; Score 213.6; DB 16; Length 1645;
Best Local Similarity 68.3%; Pred. No. 2e-63;
Matches 332; Conservative 0; Mismatches 139; Indels 15; Gaps 2;
Qy 1 ATGCTGCCATGAAGCTGTTCACTTGTCTTCTGAGTCTCTAGCTGGTGGTGGCTGTGCAC 60
Db 322 ATGCGGTCTATGAGGCTGTTCCCTTGTCTCTGAGCTCTCTGCGGGCTGGCGTGCCT 381
Qy 61 TCC-----CAGGGGGCCCTGTCTGCTGGGAACAACTCAACAGAAATGGAAGTG 108
Db 382 GCTGTGCCCCCAGCAGTGGGCTTGTCTGCTGGGAACGGCTCGTCAGAGGTGGAAGTG 441
Qy 109 GTGCTTTCATGAAGTGTGGGCGCGAGTACTGCGGCGCAATGGAGAGCTGTGTAC 168
Db 442 GTACCTTCCAGGAAGTGTGGGCGCGAGTACTGCGGCGCAATGGAGAGCTGTGTAC 501
Qy 169 ATTGAGATGAACACCCCTAATGAAGTGTCTCATATATTCAGTCCGTATGTCTCTCTG 228
Db 502 GTGCTGCGAGTACCCAGCGAGTGGAGCACAATGTCAGCCCATCTGTCTCTCTG 561
Qy 229 AGTCGCTGTAGTGGCTGTGTGGAAGGAGTGTGCACTGTGTGGCGCTTAAAGACGCC 288
Db 562 CTGCGCTGCACCGGCTGTGCGGCGATGAGAATCTGCACTGTGTGGCGCTTCTCTCTG 621
Qy 289 AACATCACTATGAGATCTTAAAGATTCCTCCCATTCGGATCCACATTCCTACGTGGAG 348
Db 622 AATGTCACCATGAGCTCTTAAAGAT---CGTTCTGGGGACCGGCCCTCTCTACGTGGAG 678
Qy 349 ATGACATCTCTCAGAGTGTACTCTGCGAATGCGAGGCTTATTCGGAGACGCAAGGCA 408
Db 679 CTGACGTTCTCTCAGCAGCTTCGCTGCGAATGCGGCTCTGCGGAGAGATGAAGCCG 738
Qy 409 GAAAGGAGAAACCAAGGGAGAGGAGCAAAACCCACAGACTGAGGAACCC 468
Db 739 GAAAGGTGGCGGATGCTGTTCCCGGAGGTAAACCCACCCCTTGGAGAGAGACCCCG 798
Qy 469 CACCTG 474
Db 799 CACCCG 804


```
; GENERAL INFORMATION:
; APPLICANT: Murray, Richard
; APPLICANT: Glynn, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Aziz, Natasha
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Angiogenesis, Compositions and
; TITLE OF INVENTION: Methods of Screening for Angiogenesis Modulators
; FILE REFERENCE: 018501-006200US
; CURRENT APPLICATION NUMBER: US/10/211,462
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US 09/784,356
; PRIOR FILING DATE: 2001-02-14
; PRIOR APPLICATION NUMBER: US 09/791,390
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: US 60/310,025
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: US 60/334,244
; PRIOR FILING DATE: 2001-11-29
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 114
; LENGTH: 1645
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-211-462-114

Query Match      44.8%; Score 213.6; DB 17; Length 1645;
Best Local Similarity 68.3%; Pred. No. 2e-63;
Matches 332; Conservative 0; Mismatches 139; Indels 15; Gaps 2;

QY      1 ATGCTGCCATGAAGCTGTTCACTTGTCTTTCAGGTCCTAGCTGGTGGCTGTGCAC 60
Db      322 ATGCGGTCATGAGGCTGTTCCCTTCTCTCAGCTCTCTGCGGGCTGGCGCTGCCT 381
QY      61 TCC-----CAGGGGGCCCTGTCTGTCTGGGAACTCAACAGAAATGGAAGTG 108
Db      382 GCTGTGCCCCCAGCAGTGGGCTTGTCTGTGGAAACGGCTCGTCAGAGTGGAAAGTG 441
QY      109 GTGCCCTTCAATGAAGTGTGGGCGCAGCTACTGCGGCCCAATGGAGAAGCTGGGTGAC 168
Db      442 GTACCCCTTCAGGAAGTGTGGGCGCAGCTACTGCGGGCGCTGGAGAGGCTGGTGGAC 501
QY      169 ATTGCAGATGAACACCTTAATGAAGTGTCTCATATATTCAATTCAGTCCGTCATGTGCTTCTG 228
Db      502 GTCGTGTCCGAGTACCCAGCAGGTGGAGCATGTTTCAGCCCATCTCTGTCTCCCTG 561
QY      229 AGTCGCTGTAGTGGCTGTCTGTGTGACGAGGCTGTGCACCTGTGTGCGGCTTAAGACAGCC 288
Db      562 CTGCGCTGCACCGGCTGTCTGCGCGATGAGAAATCTGCACCTGTGTGCGGCTGGAGACGGCC 621
QY      289 AACATCACTATGACAGATCTTAAAGATTCCCCCAATCGGGATCCACATTCCTACGTGGAG 348
Db      622 AATGTCAACATGACAGCTCTCTAAAGAT---CCGTTCTGGGGACCGGCCCTCTACGTGGAG 678
QY      349 ATGACATCTCTCAGGANGTACTTTCGGAATCGAGGCTTATTCTGGAGACGACAAAGGCA 408
Db      679 CTGACGTTCTCTCAGCACGTTCTGTCGAATGCGGCCCTCTGCGGGAAGATGAAGCCG 738
QY      409 GAAAGGAGGAAACCAAGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 468
Db      739 GAAAGGTGCGGCGATGCTGTCTCCCGGAGGTAAACCCACCCCTTGGAGGAGAGAGACCCCG 798
QY      469 CACCTG 474
Db      799 CACCCG 804

RESULT 10
US-10-772-927A-15
; Sequence 15, Application US/10772927A
; Publication No. US20040248796A1
; GENERAL INFORMATION:
; APPLICANT: Alitalo, et al.
; TITLE OF INVENTION: VEGF-B AND PDGF MODULATION OF STEM CELLS
; FILE REFERENCE: 28967/39140B
; CURRENT APPLICATION NUMBER: US/10/772,927A
; CURRENT FILING DATE: 2004-02-04
; PRIOR APPLICATION NUMBER: US 60/445,021
; PRIOR FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: US 60/471,412
; PRIOR FILING DATE: 2003-05-16
; NUMBER OF SEQ ID NOS: 30

; GENERAL INFORMATION:
; APPLICANT: Murray, Richard
; APPLICANT: Glynn, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Aziz, Natasha
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Angiogenesis, Compositions and
; TITLE OF INVENTION: Methods of Screening for Angiogenesis Modulators
; FILE REFERENCE: 018501-006200US
; CURRENT APPLICATION NUMBER: US/10/211,462
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US 09/784,356
; PRIOR FILING DATE: 2001-02-14
; PRIOR APPLICATION NUMBER: US 09/791,390
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: US 60/310,025
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: US 60/334,244
; PRIOR FILING DATE: 2001-11-29
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 114
; LENGTH: 1645
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-211-462-114

Query Match      44.8%; Score 213.6; DB 17; Length 1645;
Best Local Similarity 68.3%; Pred. No. 2e-63;
Matches 332; Conservative 0; Mismatches 139; Indels 15; Gaps 2;

QY      1 ATGCTGCCATGAAGCTGTTCACTTGTCTTTCAGGTCCTAGCTGGTGGCTGTGCAC 60
Db      322 ATGCGGTCATGAGGCTGTTCCCTTCTCTCAGCTCTCTGCGGGCTGGCGCTGCCT 381
QY      61 TCC-----CAGGGGGCCCTGTCTGTCTGGGAACTCAACAGAAATGGAAGTG 108
Db      382 GCTGTGCCCCCAGCAGTGGGCTTGTCTGTGGAAACGGCTCGTCAGAGTGGAAAGTG 441
QY      109 GTGCCCTTCAATGAAGTGTGGGCGCAGCTACTGCGGCCCAATGGAGAAGCTGGGTGAC 168
Db      442 GTACCCCTTCAGGAAGTGTGGGCGCAGCTACTGCGGGCGCTGGAGAGGCTGGTGGAC 501
QY      169 ATTGCAGATGAACACCTTAATGAAGTGTCTCATATATTCAATTCAGTCCGTCATGTGCTTCTG 228
Db      502 GTCGTGTCCGAGTACCCAGCAGGTGGAGCATGTTTCAGCCCATCTCTGTCTCCCTG 561
QY      229 AGTCGCTGTAGTGGCTGTCTGTGTGACGAGGCTGTGCACCTGTGTGCGGCTTAAGACAGCC 288
Db      562 CTGCGCTGCACCGGCTGTCTGCGCGATGAGAAATCTGCACCTGTGTGCGGCTGGAGACGGCC 621
QY      289 AACATCACTATGACAGATCTTAAAGATTCCCCCAATCGGGATCCACATTCCTACGTGGAG 348
Db      622 AATGTCAACATGACAGCTCTCTAAAGAT---CCGTTCTGGGGACCGGCCCTCTACGTGGAG 678
QY      349 ATGACATCTCTCAGGANGTACTTTCGGAATCGAGGCTTATTCTGGAGACGACAAAGGCA 408
Db      679 CTGACGTTCTCTCAGCACGTTCTGTCGAATGCGGCCCTCTGCGGGAAGATGAAGCCG 738
QY      409 GAAAGGAGGAAACCAAGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 468
Db      739 GAAAGGTGCGGCGATGCTGTCTCCCGGAGGTAAACCCACCCCTTGGAGGAGAGAGACCCCG 798
QY      469 CACCTG 474
Db      799 CACCCG 804

RESULT 9
US-10-669-176-27
; Sequence 27, Application US/10669176
; Publication No. US20040214766A1
; GENERAL INFORMATION:
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Wed Feb 23 08:36:36 2005

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; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 15
; LENGTH: 1645
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (322)..(768)
; US-10-772-927A-15

Query Match      44.7%; Score 213.2; DB 17; Length 1645;
Best Local Similarity 72.4%; Pred. No. 1.6e-63;
Matches 310; Conservative 0; Mismatches 103; Indels 15; Gaps 2;

Qy      1 ATGCTGGCCATGAAGCTGTTCACTTCTTCTTCTGAGGTCTAGCTGGTGGCTGTGCAC 60
Db      1 ATGCTGGCTCATGAGGCTGTTCCCTTCTTCTGAGGTCTTGGCCGGGCTGGCGCTGCT 60
Qy      61 TCC-----CAGGGGGCCCTCTCTCTGCTGGGAACAACCTCAACAGAAATGGAAGTG 108
Db      61 GCTGTGCCCCCAGAGTGGGCTTCTCTGCTGGGAACGGCTCGTCAGAGGTGGAAGTG 120
Qy     109 GTGCTTTTCAATGAAGTGTGGGGCCGAGCTACTGCGCGGCAATGGAGAGCTGGTGTAC 168
Db     109 GTGCTTTTCAATGAAGTGTGGGGCCGAGCTACTGCGCGGCAATGGAGAGCTGGTGTAC 168
Qy     121 GTACCCCTCCAGGAAGTGTGGGGCCGAGCTACTGCGCGGCGCTGGAGAGCTGGTGGAC 180
Db     121 GTACCCCTCCAGGAAGTGTGGGGCCGAGCTACTGCGCGGCGCTGGAGAGCTGGTGGAC 180
Qy     169 ATTGAGATGAACACCTTAATGAAGTGTCTCATATATTTCACTGCTCATGCTGCTTCTG 228
Db     169 ATTGAGATGAACACCTTAATGAAGTGTCTCATATATTTCACTGCTCATGCTGCTTCTG 228
Qy     181 GTCGTGTCGAGTACCCGAGGCTGGAGCAATGTTTCAAGCCATCTCTGCTTCTCCCTG 240
Db     181 GTCGTGTCGAGTACCCGAGGCTGGAGCAATGTTTCAAGCCATCTCTGCTTCTCCCTG 240
Qy     229 AGTGGCTGTAGTGGCTGCTGTGTGACGAGGCTGTGCACTGTGTGGGCTTAAAGACAGCC 288
Db     229 AGTGGCTGTAGTGGCTGCTGTGTGACGAGGCTGTGCACTGTGTGGGCTTAAAGACAGCC 288
Qy     241 CTGGCTGCACCGGCTGCTGGCGGATGAGAAATCTGCACTGTGTGCGGCTGGAGACGGCC 300
Db     241 CTGGCTGCACCGGCTGCTGGCGGATGAGAAATCTGCACTGTGTGCGGCTGGAGACGGCC 300
Qy     289 AACATCATATGAGATCTTAAAGATTTCCCGGATCCCGATCCCATTTCTTCTAGTGGAG 348
Db     289 AACATCATATGAGATCTTAAAGATTTCCCGGATCCCGATCCCATTTCTTCTAGTGGAG 348
Qy     301 AATGTCAACATGACGCTCTTAAAGAT---CCGTCTTGGGGACCGGCTCTTCTAGTGGAG 357
Db     301 AATGTCAACATGACGCTCTTAAAGAT---CCGTCTTGGGGACCGGCTCTTCTAGTGGAG 357
Qy     349 ATGACATTTCTCAGGATGATCTCTGCAATGCAAGGCTTATTTCTGGAGACGACAAAGCA 408
Db     349 ATGACATTTCTCAGGATGATCTCTGCAATGCAAGGCTTATTTCTGGAGACGACAAAGCA 408
Qy     358 CTGAGCTTCTCTCAGCAGCTTCTGCTGCAATGCGGCTCTCTGCGGAGAGATGAAGCG 417
Db     358 CTGAGCTTCTCTCAGCAGCTTCTGCTGCAATGCGGCTCTCTGCGGAGAGATGAAGCG 417
Qy     409 GAAAGGAG 416
Db     418 GAAAGGTG 425

RESULT 12
US-10-343-825A-12
; Sequence 12, Application US/10343825A
; Publication No. US20040038341A1
; GENERAL INFORMATION:
; APPLICANT: SHIBUYA, Masabumi
; TITLE OF INVENTION: Chimeric Human-Type Vascular Endothelial Cell Growth Factor
; FILE REFERENCE: P23303
; CURRENT APPLICATION NUMBER: US/10/343,825A
; PRIOR FILING DATE: 2003-09-09
; PRIOR APPLICATION NUMBER: PCT/JP01/06856
; PRIOR FILING DATE: 2001-08-09
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 12
; LENGTH: 450
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Sequence encoding Chimeric VEGF protein
; US-10-343-825A-12

Query Match      39.3%; Score 187.6; DB 17; Length 450;
Best Local Similarity 68.7%; Pred. No. 1.4e-54;
Matches 294; Conservative 0; Mismatches 119; Indels 15; Gaps 2;

Qy      1 ATGCTGGCCATGAAGCTGTTCACTTCTTCTTCTGAGGTCTAGCTGGTGGCTGTGCAC 60
Db      1 ATGCTGGCTCATGAGGCTGTTCCCTTCTTCTGAGGTCTTGGCCGGGCTGGCGCTGCT 60
Qy      61 TCC-----CAGGGGGCCCTCTCTCTGCTGGGAACAACCTCAACAGAAATGGAAGTG 108
Db      61 GCTGTGCCCCCAGAGTGGGCTTCTCTGCTGGGAACGGCTCGTCAGAGGTGGAAGTG 120
Qy     109 GTGCTTTTCAATGAAGTGTGGGGCCGAGCTACTGCGCGGCAATGGAGAGCTGGTGTAC 168
Db     109 GTGCTTTTCAATGAAGTGTGGGGCCGAGCTACTGCGCGGCAATGGAGAGCTGGTGTAC 168
Qy     121 GTACCCCTCCAGGAAGTGTGGGGCCGAGCTACTGCGCGGCGCTGGAGAGCTGGTGGAC 180
Db     121 GTACCCCTCCAGGAAGTGTGGGGCCGAGCTACTGCGCGGCGCTGGAGAGCTGGTGGAC 180
Qy     169 ATTGAGATGAACACCTTAATGAAGTGTCTCATATATTTCACTGCTCATGCTGCTTCTG 228
Db     169 ATTGAGATGAACACCTTAATGAAGTGTCTCATATATTTCACTGCTCATGCTGCTTCTG 228
Qy     181 GTCGTGTCGAGTACCCGAGGCTGGAGCAATGTTTCAAGCCATCTCTGCTTCTCCCTG 240
Db     181 GTCGTGTCGAGTACCCGAGGCTGGAGCAATGTTTCAAGCCATCTCTGCTTCTCCCTG 240
Qy     229 AGTGGCTGTAGTGGCTGCTGTGTGACGAGGCTGTGCACTGTGTGGGCTTAAAGACAGCC 288
Db     229 AGTGGCTGTAGTGGCTGCTGTGTGACGAGGCTGTGCACTGTGTGGGCTTAAAGACAGCC 288
Qy     241 CTGGCTGCACCGGCTGCTGGCGGATGAGAAATCTGCACTGTGTGCGGCTGGAGACGGCC 621
Db     241 CTGGCTGCACCGGCTGCTGGCGGATGAGAAATCTGCACTGTGTGCGGCTGGAGACGGCC 621
Qy     289 AACATCATATGAGATCTTAAAGATTTCCCGGATCCCGATCCCATTTCTTCTAGTGGAG 348
Db     289 AACATCATATGAGATCTTAAAGATTTCCCGGATCCCGATCCCATTTCTTCTAGTGGAG 348
Qy     622 AATGTCAACATGACGCTCTTAAAGAT---CCGTCTTGGGGACCGGCTCTTCTAGTGGAG 678
Db     622 AATGTCAACATGACGCTCTTAAAGAT---CCGTCTTGGGGACCGGCTCTTCTAGTGGAG 678
Qy     349 ATGACATTTCTCAGGATGATCTCTGCAATGCAAGGCTTATTTCTGGAGACGACAAAGCA 408
Db     349 ATGACATTTCTCAGGATGATCTCTGCAATGCAAGGCTTATTTCTGGAGACGACAAAGCA 408
Qy     679 CTGACGTTCTCTCAGCAGCTTCTGCTGCAATGCGGCTCTTGGGAGAGATGAAGCCG 738
Db     679 CTGACGTTCTCTCAGCAGCTTCTGCTGCAATGCGGCTCTTGGGAGAGATGAAGCCG 738
Qy     409 GAAAGGAGGAAACCAAGGGGAGAGGAGCAAGCAAAACCCACACAGCTGAGGAAACC 468
Db     409 GAAAGGAGGAAACCAAGGGGAGAGGAGCAAGCAAAACCCACACAGCTGAGGAAACC 468
Qy     739 GAAAGGTGGCGGATGCTGTTTCCCGGAGGTAAACCCACCTTGGAGGAGAGACCCCG 798
Db     739 GAAAGGTGGCGGATGCTGTTTCCCGGAGGTAAACCCACCTTGGAGGAGAGACCCCG 798
Qy     469 CACCTG 474
Db     799 CACCCG 804

RESULT 11
US-10-343-825A-11
; Sequence 11, Application US/10343825A
; Publication No. US20040038341A1
; GENERAL INFORMATION:
; APPLICANT: SHIBUYA, Masabumi
; TITLE OF INVENTION: Chimeric Human-Type Vascular Endothelial Cell Growth Factor
; FILE REFERENCE: P23303
; CURRENT APPLICATION NUMBER: US/10/343,825A
; PRIOR FILING DATE: 2003-09-09
; PRIOR APPLICATION NUMBER: PCT/JP01/06856
; PRIOR FILING DATE: 2001-08-09
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 11
; LENGTH: 468
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Sequence encoding Chimeric VEGF protein
; US-10-343-825A-11
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Db 121 GTACCTTCCAGGAAGTGGGGCGCAGCTACTCAACCTAGATAGATCTGTTTAT 180
Qy 169 ATTGCAGTGAACACCCCTAATGAAGTGTCTCATATATTAGTCCGTCATGTGCTTCTG 228
Db 181 TTGGGAGAAGATATCCAGAAAGCACTAACCTACAATAATAATCCCGGTGTGCTCCCTG 240
Qy 229 AGTCGCTGTAGTGGCTGTGTGTGAGAGGGTCTGCACCTGTGTGGGCTTAAGACAGCC 288
Db 241 CTGCGCTGCACCGGCTGTGCGGAGTGAATCTGCACCTGTGTGCGGTGGAGCGGC 300
Qy 289 AACATCACTATGAGATCTTAAGATTCCCGCCCAATCGGGATCCACATTCCTACGTGGAG 348
Db 301 AATGTCACCATGAGCTCCTAAGAT---CCGTTCTGGGACCGGCTCCTACGTGGAG 357
Qy 349 ATGACATTTCTCAGGATGACTCTGCGAATGAGGCTTATCTTGAGACGACAAAGGCA 408
Db 358 CTGACGTTCTCTCAGCACGTTCTGCTGCAATGCCGCTCTGCGGAGAAGATGAAGCCG 417
Qy 409 GAAAGGAG 416
Db 418 GAAAGGTG 425

RESULT 13
US-09-918-995-1813
; Sequence 1813, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1813
; LENGTH: 475
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(475)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-1813

Query Match 35.3%; Score 168.4; DB 10; Length 475;
Best Local Similarity 66.0%; Pred. No. 7.3e-48;
Matches 260; Conservative 0; Mismatches 131; Indels 3; Gaps 1;

Qy 81 TGGGAACAATCAACAGAAATGAAGTGGTGGCTTTCAATGAAGTGGGGCGCAGCTA 140
Db 29 TTGATGCGCTCTCGAGGTGGAAGTGTACCTTCAGGAAGTGTGGGGCGCAGCTA 88
Qy 141 CTCGCGGCCAATGAGAGAGCTGTGTACATTGAGATGAACACCTTAATGAAGTGTCTA 200
Db 89 CTCGCGGGCGCTGGAGAGGCTGTGGAGCTCTGTGCGAGTACCCCGAGGTGGAGCA 148
Qy 201 TATATTCACTCCCTCATGTGTCTTCTGATGCTCTGTAGTGGCTGTGTGGTACAGGG 260
Db 149 CATGTTTCAGCCCATCTCTGTCTCTCCCTGTGCGCTGCACCGGCTGTGCGGCGATGAGAA 208
Qy 261 TCTGCACTGTGGCGCTAAAGACAGCAACATCATCTATCATGATCTTAAGATTCCTCCC 320
Db 209 TCTGCACTGTGCGGTGGAGAGCGCCATGTGCATGCACTCTTAAGAT---CCG 265
Qy 321 CAATCGGGATCCCATCTTCTACGTGGAGATGACATCTCTCAGGATGTACTCTCGGAATG 380
Db 266 GTCTGGGGACCGGCTCTCTACAGGAGTGACGTTCTCTCAGCACGTTCTGCTGGGAAG 325
Qy 381 CAGGCTATTCTTGAGACGACAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGCA 440

Db 326 CAGCCCTCTCGGGAGAGATGAAGCCGGAAGGTGCGGGATGCTGTTCCCGGAGGTA 385
Qy 441 AAGCAAAACCCACAGACTGAGGAACCCACCTG 474
Db 386 ACCCACCCTTGGAGGAGAGAGACCCCGCACCG 419

RESULT 14
US-10-343-825A-13
; Sequence 13, Application US/10343825A
; Publication No. US20040038341A1
; GENERAL INFORMATION:
; APPLICANT: SHIBUYA, Masaumi
; TITLE OF INVENTION: Chimeric Human-Type Vascular Endothelial Cell Growth Factor
; FILE REFERENCE: P23303
; CURRENT APPLICATION NUMBER: US/10/343,825A
; CURRENT FILING DATE: 2003-09-09
; PRIOR APPLICATION NUMBER: PCT/JP01/06856
; PRIOR FILING DATE: 2001-08-09
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 13
; LENGTH: 474
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Sequence encoding Chimeric VEGF protein
US-10-343-825A-13

Query Match 30.9%; Score 147.4; DB 17; Length 474;
Best Local Similarity 70.1%; Pred. No. 1.6e-40;
Matches 218; Conservative 0; Mismatches 81; Indels 12; Gaps 1;

Qy 1 ATGCTGGCCATGAAGCTGTTCACCTCTTTCAGGTCCTAGCTGGGTTGGCTGTGCAC 60
Db 1 ATGCGGTCATGAGGCTGTCTCTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 60
Qy 61 TCC-----CAGGGGCGCTGTCTGTGGGAAACAACTCAACAGAAATGGAAGTG 108
Db 61 GCTGTGCCCCCGCAGCAGCTGGGCTTGTCTGTGGGAACGGCTCTGTCAAGGTGGAAGTG 120
Qy 109 GTGCCCTTCAATCAAGTGTGGGGCGCAGCTACTGCGGCCAATGAGAGCTGTGTAC 168
Db 121 GTACCTTCCAGGAAGTGTGGGGCGCAGCTACTGCGGGCGCTGGAGAGGCTGGTGAC 180
Qy 169 ATTGCAGATCAACACCCCTTAATGAAGTGTCTCATATATTTCAGTCCGTCATGTCTCTG 228
Db 181 GTCGTGTCCGAGTACCCCGAGGAGGTGGAGCATGTTCAGCCCATCTGTGTCTCCCTG 240
Qy 229 AGTCGCTGTAGTGGCTGTGTGTGAGAGGGTCTGCACTGTGTGGCGCTAAAGACAGCC 288
Db 241 CTGCGCTGCACCGGCTGTCTGCGGCGATGAGAACTCTGCACTGTACAGCGGTGGAACAAGA 300
Qy 289 AACATCACTAT 299
Db 301 AATACAACTGT 311

RESULT 15
US-10-343-825A-14
; Sequence 14, Application US/10343825A
; Publication No. US20040038341A1
; GENERAL INFORMATION:
; APPLICANT: SHIBUYA, Masaumi
; TITLE OF INVENTION: Chimeric Human-Type Vascular Endothelial Cell Growth Factor
; FILE REFERENCE: P23303
; CURRENT APPLICATION NUMBER: US/10/343,825A
; CURRENT FILING DATE: 2003-09-09
; PRIOR APPLICATION NUMBER: PCT/JP01/06856
; PRIOR FILING DATE: 2001-08-09
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.2

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 18, 2005, 04:24:59 ; Search time 23 Seconds

(without alignments)
512.807 Million cell updates/sec

Title: US-10-071-370A-4
Perfect score: 846
Sequence: 1 MLAMKLTCTFLQVLAVH.....RKTGKRKQSKTPQTEPHL 158

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:
1: /cgn2_6/prodata/1/iaa/5A COMB pep.*
2: /cgn2_6/prodata/1/iaa/5B COMB pep.*
3: /cgn2_6/prodata/1/iaa/6A COMB pep.*
4: /cgn2_6/prodata/1/iaa/6B COMB pep.*
5: /cgn2_6/prodata/1/iaa/PCTUS COMB pep.*
6: /cgn2_6/prodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	846	100.0	158	3	US-08-586-039B-39
2	846	100.0	158	4	US-09-699-769-39
3	740	87.5	138	3	US-08-586-039B-37
4	740	87.5	138	4	US-09-699-769-37
5	501.5	59.3	170	2	US-08-039-297B-8
6	501.5	59.3	170	3	US-08-586-039B-45
7	501.5	59.3	170	4	US-09-699-769-45
8	499.5	59.0	170	4	US-09-431-888-5
9	499.5	59.0	170	4	US-09-438-046-11
10	498.5	58.9	154	3	US-08-586-039B-41
11	498.5	58.9	154	4	US-09-699-769-41
12	493.5	58.3	170	4	US-09-214-982-32
13	474.5	56.1	149	1	US-08-469-427A-14
14	474.5	56.1	149	2	US-08-039-297B-2
15	474.5	56.1	149	2	US-08-569-063C-21
16	474.5	56.1	149	3	US-08-795-430-55
17	474.5	56.1	149	3	US-08-586-039B-47
18	474.5	56.1	149	3	US-09-355-700-55
19	474.5	56.1	149	4	US-08-706-054A-5
20	474.5	56.1	149	4	US-09-699-769-47
21	474.5	56.1	149	4	US-09-313-299-5
22	474.5	56.1	149	4	US-08-671-573B-54
23	474.5	56.1	149	4	US-09-631-092B-54
24	474.5	56.1	149	4	US-09-468-647A-106
25	474.5	56.1	149	4	US-09-949-016-6252
26	474.5	56.1	149	4	US-09-534-376A-55
27	319.5	37.8	214	3	US-08-586-039B-35

28	319.5	37.8	214	4	US-09-699-769-35	Sequence 35, Appl
29	316	37.4	214	6	5240848-11	Patent No. 5240848
30	316	37.4	214	6	5240848-11	Patent No. 5240848
31	315	37.2	188	4	US-09-244-583-28	Sequence 28, Appl
32	315	37.2	213	4	US-09-574-708A-8	Sequence 8, Appl
33	315	37.2	215	3	US-08-586-039B-49	Sequence 49, Appl
34	315	37.2	215	4	US-09-699-769-49	Sequence 49, Appl
35	315	37.2	215	4	US-09-392-931-8	Sequence 8, Appl
36	315	37.2	215	4	US-09-468-647A-105	Sequence 105, App
37	315	37.2	215	6	5240848-7	Patent No. 5240848
38	315	37.2	215	6	5240848-7	Patent No. 5240848
39	315	37.2	232	2	US-08-999-811-7	Sequence 7, Appl
40	315	37.2	232	2	US-08-824-996-9	Sequence 9, Appl
41	315	37.2	232	3	US-09-042-105-7	Sequence 7, Appl
42	315	37.2	232	4	US-09-574-708A-10	Sequence 10, Appl
43	315	37.2	232	4	US-08-465-968-5	Sequence 5, Appl
44	315	37.2	232	4	US-10-084-488-7	Sequence 7, Appl
45	315	37.2	232	4	US-09-214-982-33	Sequence 33, Appl

ALIGNMENTS

RESULT 1
US-08-586-039B-39
; Sequence 39, Application US/08586039B
; Patent No. 6140073
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Thomas Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR C
; TITLE OF INVENTION: SUBUNIT
; NUMBER OF SEQUENCES: 49
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: 126 E. Lincoln Avenue
; CITY: Rahway
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6
; CURRENT APPLICATION DATA:
; FILING DATE: 16-JAN-1996
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/124,259
; FILING DATE: 20-SEP-1993
; APPLICATION NUMBER: 07/676,436
; FILING DATE: 28-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Hand, J. Mark
; REGISTRATION NUMBER: 36,545
; REFERENCE/DOCKET NUMBER: 18361DA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908) 594-3905
; TELEFAX: (908) 594-4720
; INFORMATION FOR SEQ ID NO: 39:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 158 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-586-039B-39

Query Match 100.0%; Score 846; DB 3; Length 158;
Best Local Similarity 100.0%; Pred. No. 9.1e-91;
Matches 158; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

US-09-699-769-37

; Sequence 37, Application US/09699769
; Patent No. 6569434
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; Thomas Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR
; C SUBUNIT
; NUMBER OF SEQUENCES: 49
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: 126 E. Lincoln Avenue
; CITY: Rahway
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07065-0900

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/699,769
; FILING DATE: 30-Oct-2000
; CLASSIFICATION: <Unknown>

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/586,039
; FILING DATE: 16-JAN-1996
; APPLICATION NUMBER: 08/124,259
; FILING DATE: 20-SEP-1993
; APPLICATION NUMBER: 07/676,436
; FILING DATE: 28-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Hand, J. Mark
; REGISTRATION NUMBER: 36,545
; REFERENCE/DOCKET NUMBER: 18361DB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (732) 594-3305
; TELEFAX: (732) 594-4720

; INFORMATION FOR SEQ ID NO: 37:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 138 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear

; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 37:

US-09-699-769-37

Query Match 87.5%; Score 740; DB 4; Length 138;

Best Local Similarity 100.0%; Pred. No. 1.8e-78;

Matches 138; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLAMKLTFCFLQVLAVHSGQALSGAGNNSTEMEVVFNVEVGRSYCRPMKLVYIADE 60

DB 1 MLAMKLTFCFLQVLAVHSGQALSGAGNNSTEMEVVFNVEVGRSYCRPMKLVYIADE 60

QY 61 HPNEVSHIFSPSCVLLSRCSGCGDEGLHCVALKTANITMQLKIPPNRDPHYSVEMTF 120

DB 61 HPNEVSHIFSPSCVLLSRCSGCGDEGLHCVALKTANITMQLKIPPNRDPHYSVEMTF 120

QY 121 QDVLCRCRPILETTKAER 138

DB 121 QDVLCRCRPILETTKAER 138

RESULT 5

US-08-039-297B-8

; Sequence 8, Application US/08039297B

; Patent No. 5919899

; GENERAL INFORMATION:

; APPLICANT: PERSICO, MARIA

; APPLICANT: MAGNONE, DOMENICO

; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES CODING FOR A

; TITLE OF INVENTION: HUMAN
; TITLE OF INVENTION: PROTEIN WITH ANGIOGENESIS REGULATIVE PROPERTIES
; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: BEVERIDGE, DeGrandi, Weilacher & Young,

; ADDRESSEE: L.L.P.

; STREET: 1850 M Street, N.W.

; CITY: Washington

; STATE: DC

; COUNTRY: USA

; ZIP: 20036

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/039,297B

; FILING DATE: 19-APR-1993

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: IT 48315-A90\

; FILING DATE: 27-SEP-1990

; ATTORNEY/AGENT INFORMATION:

; NAME: Weilacher, Robert G

; REGISTRATION NUMBER: 20,531

; REFERENCE/DOCKET NUMBER: 48573

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 202-659-2811

; TELEFAX: 202-659-1462

; TELEX: WUI64470

; INFORMATION FOR SEQ ID NO: 8:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 170

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: unknown

US-08-039-297B-8

Query Match 59.3%; Score 501.5; DB 2; Length 170;

Best Local Similarity 61.5%; Pred. No. 1.6e-50;

Matches 96; Conservative 23; Mismatches 32; Indels 5; Gaps 2;

QY 1 MLAMKLTFCFLQVLAVHSGQALSGAGNNSTEMEVVFNVEVGRSYCRPMKLVY 56

DB 1 MPVMRLFPCLQVLAVHSGQALSGAGNNSTEMEVVFNVEVGRSYCRPMKLVY 60

QY 57 IADEHPNEVSHIFSPSCVLLSRCSGCGDEGLHCVALKTANITMQLKIPPNRDPHYSYVE 116

DB 61 VVSEYPSVEVHPSPSCVLLSRCTGCCDENLHCVPTANVTMQLKIRSGDRP-SYVE 119

QY 117 MTFSDVLCRCRPILETTKAERKTKGKRKQSKTPQ 152

DB 120 LIFSQHVRCRPLREKMKPERRPKGCRKRREKQ 155

RESULT 6

US-08-586-039B-45

; Sequence 45, Application US/08586039B

; Patent No. 6140073

; GENERAL INFORMATION:

; APPLICANT: Bayne, Marvin L.

; APPLICANT: Thomas Jr., Kenneth A.

; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR C

; TITLE OF INVENTION: SUBUNIT

; NUMBER OF SEQUENCES: 49

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Merck & Co., Inc.

; STREET: 126 E. Lincoln Avenue

; CITY: Rahway

; STATE: New Jersey

; COUNTRY: USA

Matches 96; Conservative 23; Mismatches 32; Indels 5; Gaps 2;
Qy 1 MLAMKLTCTCLOVLAVHS---QGALSAGNNSTEMEVVPPNEVWGRSYCRPMKLVY 56
Db 1 MPVMRLFPCLQLLAGLALPAVPPQWALSAGNSSEVVPQEWGGRSYCRALERLVD 60
Qy 57 IADHPNEVSHIFSPCVLLSRSCGCGDGLHCVALKTANITMQLKIPPNRDPHSYVE 116
Db 61 VVSEYSPSEVHEMFSPCVSLRCTGCCGDLHCVPTANVTMQLKIRSGDRP-SYVE 119
Qy 117 MTFSDQVLCRPILETTKAERKTKGKRKQSKTPQ 152
Db 120 LTFQHVRCRPLREKMKPERRRPKRGKRRENO 155

RESULT 9

US-09-438-046-11
; Sequence 11, Application US/09438046
; Patent No. 6706687
; GENERAL INFORMATION:
; APPLICANT: ERIKSSON, Ulf
; APPLICANT: AASE, Karin
; APPLICANT: PONTN, Annica
; APPLICANT: UTELA, Marko
; APPLICANT: ALITALO, Karl
; APPLICANT: OESTMAN, Arne
; APPLICANT: HELDIN, Carl-Henrik
; TITLE OF INVENTION: PLATELET-DERIVED GROWTH FACTOR D, DNA CODING
; TITLE OF INVENTION: THEREFOR, AND USES THEREOF
; FILE REFERENCE: Ulf Eriksson et al 1064-44833
; CURRENT APPLICATION NUMBER: US/09/438,046
; EARLIER FILING DATE: 1999-11-10
; EARLIER APPLICATION NUMBER: 60/107,852
; EARLIER FILING DATE: 1998-11-10
; EARLIER APPLICATION NUMBER: 60/113,997
; EARLIER FILING DATE: 1999-12-28
; EARLIER APPLICATION NUMBER: 60/150,604
; EARLIER FILING DATE: 1999-08-26
; EARLIER APPLICATION NUMBER: 60/157,108
; EARLIER FILING DATE: 1999-10-04
; EARLIER APPLICATION NUMBER: 60/157,756
; EARLIER FILING DATE: 1999-10-05
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-438-046-11

Query Match 59.0%; Score 499.5; DB 4; Length 170;
Best Local Similarity 61.5%; Pred. No. 2.8e-50;
Matches 96; Conservative 23; Mismatches 32; Indels 5; Gaps 2;
Qy 1 MLAMKLTCTCLOVLAVHS---QGALSAGNNSTEMEVVPPNEVWGRSYCRPMKLVY 56
Db 1 MPVMRLFPCLQLLAGLALPAVPPQWALSAGNSSEVVPQEWGGRSYCRALERLVD 60
Qy 57 IADHPNEVSHIFSPCVLLSRSCGCGDGLHCVALKTANITMQLKIPPNRDPHSYVE 116
Db 61 VVSEYSPSEVHEMFSPCVSLRCTGCCGDLHCVPTANVTMQLKIRSGDRP-SYVE 119
Qy 117 MTFSDQVLCRPILETTKAERKTKGKRKQSKTPQ 152
Db 120 LTFQHVRCRPLREKMKPERRRPKRGKRRENO 155

RESULT 10

US-08-586-039B-41
; Sequence 41, Application US/08586039B
; Patent No. 6140073
; GENERAL INFORMATION:

APPLICANT: Bayne, Marvin L.
APPLICANT: Thomas Jr., Kenneth A.
TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR C
TITLE OF INVENTION: SUBUNIT
NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co., Inc.
STREET: 126 E. Lincoln Avenue
CITY: Rahway
STATE: New Jersey
COUNTRY: USA
ZIP: 07065-0900
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/586,039B
FILING DATE: 16-JAN-1996
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/124,259
FILING DATE: 20-SEP-1993
APPLICATION NUMBER: 07/676,436
FILING DATE: 28-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Hand, J. Mark
REGISTRATION NUMBER: 36,545
REFERENCE/DOCKET NUMBER: 18361DA
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 594-3905
TELEFAX: (908) 594-4720
INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 154 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-586-039B-41

Query Match 58.9%; Score 498.5; DB 3; Length 154;
Best Local Similarity 62.1%; Pred. No. 3.2e-50;
Matches 95; Conservative 23; Mismatches 30; Indels 5; Gaps 2;
Qy 1 MLAMKLTCTCLOVLAVHS---QGALSAGNNSTEMEVVPPNEVWGRSYCRPMKLVY 56
Db 1 MPVMRLFPCLQLLAGLALPAVPPQWALSAGNSSEVVPQEWGGRSYCRALERLVD 60
Qy 57 IADHPNEVSHIFSPCVLLSRSCGCGDGLHCVALKTANITMQLKIPPNRDPHSYVE 116
Db 61 VVSEYSPSEVHEMFSPCVSLRCTGCCGDLHCVPTANVTMQLKIRSGDRP-SYVE 119
Qy 117 MTFSDQVLCRPILETTKAERKTKGKRKQSK 149
Db 120 LTFQHVRCRPLREKMKPERRRPKRGKR 152

RESULT 11

US-09-699-769-41
; Sequence 41, Application US/09699769
; Patent No. 6569434
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Thomas Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR C SUBUNIT
; NUMBER OF SEQUENCES: 49
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: 126 E. Lincoln Avenue
; CITY: Rahway

```

RESULT 12
US-09-214-982-32
; Sequence 32, Application US/09214982
; Patent No. 6828426
; GENERAL INFORMATION:
; APPLICANT: Hirata, Yuichi
; APPLICANT: Nezu, Junichi
; TITLE OF INVENTION: No. 6828426el VEGF-like Factor
; FILE REFERENCE: 50026/014001
; CURRENT APPLICATION NUMBER: US/09/214,982
; CURRENT FILING DATE: 1999-01-14
; EARLIER APPLICATION NUMBER: 8-185216 Japan
; EARLIER FILING DATE: 1996-07-15
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 32
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-214-982-32

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Db 61 VVSEYPSVEHMFSPSCVSLRCTCGCGDENLHCVPTETANTVMTQLLKIRSGDRP-SYVE 119
Qy 117 MTFSDQVLCRCRPILETTKAER 138
Db 120 LTFSSHVRCECRPLREKMKPER 141

RESULT 14

US-08-039-297B-2
; Sequence 2, Application US/08039297B
; Patent No. 5919899
; GENERAL INFORMATION:
; APPLICANT: PERSICO, MARIA
; APPLICANT: MAGNONE, DOMENICO
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES CODING FOR A
; TITLE OF INVENTION: HUMAN
; TITLE OF INVENTION: PROTEIN WITH ANGIOGENESIS REGULATIVE PROPERTIES
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BEVERIDGE, DeGRANDI, WEILLACHER & YOUNG,
; ADDRESSEE: L.L.P.
; STREET: 1850 M Street, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20036

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/039,297B
; FILING DATE: 19-APR-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IT 48315-A90\
; FILING DATE: 27-SEP-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Weillacher, Robert G
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 48573
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-659-2811
; TELEFAX: 202-659-1462
; TELEX: WUI64470
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 149 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown

US-08-039-297B-2

Query Match 56.1%; Score 474.5; DB 2; Length 149;
Best Local Similarity 64.1%; Pred. No. 2e-47;
Matches 91; Conservative 19; Mismatches 27; Indels 5; Gaps 2;

Qy 1 MLAMKLTCTFLOVLGAVLHVS---QGALSAGNNSTEMEVVPPQWALSAGNSSEVVPFQEVWGRSYCRPMKLVY 56
Db 1 MPVNRLEPCFLQLLAGLALPAVPPQWALSAGNSSEVVPFQEVWGRSYCRALERLVD 60
Qy 57 IADHPNEVSHIFSPSCVLLSRSCGCCGDEGLHCVALKTANTITMQLIKIPNDRPHSYVE 116
Db 61 VVSEYPSVEHMFSPSCVSLRCTCGCGDENLHCVPTETANTVMTQLLKIRSGDRP-SYVE 119
Qy 117 MTFSDQVLCRCRPILETTKAER 138
Db 120 LTFSSHVRCECRPLREKMKPER 141

RESULT 15

US-08-569-063C-21
; Sequence 21, Application US/08569063C
; Patent No. 5928939
; GENERAL INFORMATION:
; APPLICANT: ERIKSSON, Ulf
; APPLICANT: OLOFSSON, Birgitta
; APPLICANT: ALITALO, Kari
; APPLICANT: PAJUSOLA, Katri
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL GROWTH FACTOR-B AND
; TITLE OF INVENTION: DNA CODING THEREFOR
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Evenson, McKeown, Edwards & Lenahan, P.L.L.C.
; STREET: 1200 G Street, N.W., Suite 700
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/569,063C
; FILING DATE: 06-DEC-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/469,427
; FILING DATE: 06-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/397,651
; FILING DATE: 01-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: EVANS, Joseph D
; REGISTRATION NUMBER: 26,269
; REFERENCE/DOCKET NUMBER: 1064/41979CP3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 628-8800
; TELEFAX: (202) 628-8844
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 149 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein

US-08-569-063C-21

Query Match 56.1%; Score 474.5; DB 2; Length 149;
Best Local Similarity 64.1%; Pred. No. 2e-47;
Matches 91; Conservative 19; Mismatches 27; Indels 5; Gaps 2;

Qy 1 MLAMKLTCTFLOVLGAVLHVS---QGALSAGNNSTEMEVVPPQWALSAGNSSEVVPFQEVWGRSYCRPMKLVY 56
Db 1 MPVNRLEPCFLQLLAGLALPAVPPQWALSAGNSSEVVPFQEVWGRSYCRALERLVD 60
Qy 57 IADHPNEVSHIFSPSCVLLSRSCGCCGDEGLHCVALKTANTITMQLIKIPNDRPHSYVE 116
Db 61 VVSEYPSVEHMFSPSCVSLRCTCGCGDENLHCVPTETANTVMTQLLKIRSGDRP-SYVE 119
Qy 117 MTFSDQVLCRCRPILETTKAER 138
Db 120 LTFSSHVRCECRPLREKMKPER 141

Search completed: February 18, 2005, 04:42:03
Job time : 25 secs

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OM protein - protein search, using sw model

Run on: February 18, 2005, 04:38:31 ; Search time 132 Seconds
(without alignments)
391.698 Million cell updates/sec

Title: US-10-071-370A-4
Perfect score: 846
Sequence: 1 MLAMKLPTCFLOVLAVH.....RKTGKRKQSKPTQTEPHL 158

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1380268 seqs, 327241040 residues

Total number of hits satisfying chosen parameters: 1380268

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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2:	/cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
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13:	/cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
14:	/cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
15:	/cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
16:	/cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep.*
17:	/cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
18:	/cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
19:	/cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
20:	/cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	846	100.0	158	14 US-10-071-370A-4	Sequence 4, Appli
2	740	87.5	138	14 US-10-071-370A-6	Sequence 6, Appli
3	499.5	59.0	170	9 US-09-852-209A-9	Sequence 9, Appli
4	499.5	59.0	170	14 US-10-131-600-9	Sequence 9, Appli
5	499.5	59.0	170	15 US-10-352-153-5	Sequence 5, Appli
6	499.5	59.0	170	15 US-10-303-997B-9	Sequence 9, Appli
7	499.5	59.0	170	15 US-10-439-337A-9	Sequence 9, Appli
8	486.5	57.5	180	17 US-10-868-577A-69	Sequence 69, Appli
9	474.5	56.1	149	9 US-09-795-006A-115	Sequence 115, App
10	474.5	56.1	149	14 US-10-201-386-55	Sequence 55, App
11	474.5	56.1	149	14 US-10-262-538-28	Sequence 28, Appl
12	474.5	56.1	149	14 US-10-021-660-102	Sequence 102, App
13	474.5	56.1	149	14 US-10-346-802-5	Sequence 5, Appli

14	474.5	56.1	149	15	US-10-116-275-226	Sequence 226, App
15	474.5	56.1	149	15	US-10-211-462-115	Sequence 115, App
16	450.5	53.3	221	15	US-10-440-464-128	Sequence 128, App
17	450.5	53.3	221	17	US-10-868-577A-15	Sequence 15, Appl
18	450.5	53.3	221	17	US-10-868-577A-47	Sequence 47, Appl
19	365.5	43.2	163	15	US-10-343-825A-15	Sequence 15, Appl
20	320.5	37.9	214	9	US-09-349-954A-22	Sequence 22, Appl
21	320.5	37.9	214	9	US-09-907-007-22	Sequence 22, Appl
22	320.5	37.9	214	15	US-10-673-708-22	Sequence 22, Appl
23	315.5	37.3	162	10	US-09-832-355A-60	Sequence 60, Appl
24	315	37.2	171	9	US-09-812-133-2	Sequence 2, Appli
25	315	37.2	181	17	US-10-868-577A-14	Sequence 14, Appl
26	315	37.2	188	14	US-10-293-157-28	Sequence 28, Appl
27	315	37.2	213	14	US-10-268-447-8	Sequence 8, Appli
28	315	37.2	215	9	US-09-244-694-3	Sequence 3, Appli
29	315	37.2	215	15	US-10-418-529-8	Sequence 8, Appli
30	315	37.2	215	15	US-10-370-291-6	Sequence 6, Appli
31	315	37.2	215	17	US-10-615-343-15	Sequence 15, Appl
32	315	37.2	215	17	US-10-868-577A-10	Sequence 10, Appl
33	315	37.2	232	9	US-09-795-006A-147	Sequence 147, App
34	315	37.2	232	10	US-09-935-726-7	Sequence 7, Appli
35	315	37.2	232	13	US-10-127-551-5	Sequence 5, Appli
36	315	37.2	232	13	US-10-060-523-9	Sequence 9, Appli
37	315	37.2	232	14	US-10-084-488-7	Sequence 7, Appli
38	315	37.2	232	14	US-10-268-447-10	Sequence 10, Appl
39	315	37.2	232	14	US-10-120-398-7	Sequence 7, Appli
40	315	37.2	232	14	US-10-120-414-7	Sequence 7, Appli
41	315	37.2	232	14	US-10-120-377-7	Sequence 7, Appli
42	315	37.2	232	15	US-10-370-291-8	Sequence 8, Appli
43	315	37.2	232	16	US-10-696-002-7	Sequence 7, Appli
44	315	37.2	232	17	US-10-615-343-20	Sequence 20, Appl
45	315	37.2	232	17	US-10-868-577A-5	Sequence 5, Appli

ALIGNMENTS

RESULT 1
US-10-071-370A-4
; Sequence 4, Application US/10071370A
; Publication No. US20030045471A1
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Conn, Gregory L.
; TITLE OF INVENTION: THOMAS, JR., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR
; FILE REFERENCE: II
; FILE REFERENCE: 18199CB
; CURRENT APPLICATION NUMBER: US/10/071,370A
; CURRENT FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: 09/326,879
; PRIOR FILING DATE: 1999-06-07
; PRIOR APPLICATION NUMBER: 09/038,199
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 08/299,185
; PRIOR FILING DATE: 1994-08-31
; PRIOR APPLICATION NUMBER: 08/000,834
; PRIOR FILING DATE: 1993-01-05
; PRIOR APPLICATION NUMBER: 07/586,638
; PRIOR FILING DATE: 1990-09-21
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 158
; TYPE: PRT
; ORGANISM: rat
US-10-071-370A-4

Query Match 100.0%; Score 846; DB 14; Length 158;
Best Local Similarity 100.0%; Pred. No. 3.8e-82;
Matches 158; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MLAMKLPTCFLOVLAVHVSQALSGNNSTEMEVVFPNEVWGRSYCRPMKLVYIADE 60

Db 1 MLAMKLTFCFLQVLAVHSGALSGAGNSTEMEVVFNVEVWGRSYCRPMKLVYIADE 60
QY 61 HPNEVSHIFSPSCVLLSRGCGGDEGLHCVALKANTITMQLKIPNDRPHSYVEMTFS 120
Db 61 HPNEVSHIFSPSCVLLSRGCGGDEGLHCVALKANTITMQLKIPNDRPHSYVEMTFS 120
QY 121 QDVLCRCRPILETTKAERKTKGRKOSKTPOTEEPHL 158
Db 121 QDVLCRCRPILETTKAERKTKGRKOSKTPOTEEPHL 158

RESULT 2

US-10-071-370A-6
; Sequence 6, Application US/10071370A
; Publication No. US20030045471A1
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Thomas, Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR
; TITLE OF INVENTION: II
; FILE REFERENCE: 18199CB
; CURRENT APPLICATION NUMBER: US/10/071,370A
; CURRENT FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: 09/326,879
; PRIOR FILING DATE: 1999-06-07
; PRIOR APPLICATION NUMBER: 09/038,199
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 08/299,185
; PRIOR FILING DATE: 1994-08-31
; PRIOR APPLICATION NUMBER: 08/000,834
; PRIOR FILING DATE: 1993-01-05
; PRIOR APPLICATION NUMBER: 07/586,638
; PRIOR FILING DATE: 1990-09-21
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 138
; TYPE: PRT
; ORGANISM: rat
US-10-071-370A-6

Query Match 87.5%; Score 740; DB 14; Length 138;
Best Local Similarity 100.0%; Pred. No. 6.7e-71;
Matches 138; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MLAMKLTFCFLQVLAVHSGALSGAGNSTEMEVVFNVEVWGRSYCRPMKLVYIADE 60
Db 1 MLAMKLTFCFLQVLAVHSGALSGAGNSTEMEVVFNVEVWGRSYCRPMKLVYIADE 60
QY 61 HPNEVSHIFSPSCVLLSRGCGGDEGLHCVALKANTITMQLKIPNDRPHSYVEMTFS 120
Db 61 HPNEVSHIFSPSCVLLSRGCGGDEGLHCVALKANTITMQLKIPNDRPHSYVEMTFS 120
QY 121 QDVLCRCRPILETTKAER 138
Db 121 QDVLCRCRPILETTKAER 138

RESULT 3

US-09-852-209A-9
; Sequence 9, Application US/09852209A
; Patent No. US20020164687A1
; GENERAL INFORMATION:
; APPLICANT: ERIKSSON, Ulf
; APPLICANT: AASE, Karin
; APPLICANT: LEE, Xuri
; APPLICANT: PONTEN, Annica
; APPLICANT: UUTELA, Marko
; APPLICANT: ALITALO, Kari
; APPLICANT: OESTMAN, Arne
; APPLICANT: HELDIN, Carl-Henrik

; APPLICANT: BETSHOLTZ, Christer
; TITLE OF INVENTION: PLATELET-DERIVED GROWTH FACTOR C, DNA CODING
; TITLE OF INVENTION: THEREFOR, AND USES THEREOF
; FILE REFERENCE: 09-410349-Eriksson et al-1064-44740
; CURRENT APPLICATION NUMBER: US/09/852,209A
; CURRENT FILING DATE: 2001-05-10
; PRIOR APPLICATION NUMBER: 09/410,349
; PRIOR FILING DATE: 1999-09-30
; PRIOR APPLICATION NUMBER: 60/110,749
; PRIOR FILING DATE: 1998-12-03
; PRIOR APPLICATION NUMBER: 60/113,002
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: 60/135,426
; PRIOR FILING DATE: 1999-05-21
; PRIOR APPLICATION NUMBER: 60/144,022
; PRIOR FILING DATE: 1999-07-15
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-852-209A-9
Query Match 59.0%; Score 499.5; DB 9; Length 170;
Best Local Similarity 61.5%; Pred. No. 4.2e-45;
Matches 96; Conservative 23; Mismatches 32; Indels 5; Gaps 2;
QY 1 MLAMKLTFCFLQVLAVHSGALSGAGNSTEMEVVFNVEVWGRSYCRPMKLVY 56
Db 1 MPVMRLFFCFLLQVLAVHSGALSGAGNSTEMEVVFNVEVWGRSYCRPMKLVY 60
QY 57 IADEHPNEVSHIFSPSCVLLSRGCGGDEGLHCVALKANTITMQLKIPNDRPHSYVE 116
Db 61 VVSEYSEVHEMFSPSCVLLSRGCGGDEGLHCVPVETANVTMQLKIRSGDRP-SYVE 119
QY 117 MTFSDVLCRCRPILETTKAERKTKGRKOSKTPQ 152
Db 120 LTFQHVRCRCRPILETTKAERKTKGRKOSKTPQ 155

RESULT 4

US-10-131-600-9
; Sequence 9, Application US/10131600
; Publication No. US20030082670A1
; GENERAL INFORMATION:
; APPLICANT: ERIKSSON, Ulf
; APPLICANT: AASE, Karin
; APPLICANT: LEE, Xuri
; APPLICANT: PONTEN, Annica
; APPLICANT: UUTELA, Marko
; APPLICANT: ALITALO, Kari
; APPLICANT: OESTMAN, Arne
; APPLICANT: HELDIN, Carl-Henrik
; APPLICANT: BETSHOLTZ, Christer
; TITLE OF INVENTION: PLATELET-DERIVED GROWTH FACTOR C, DNA CODING
; TITLE OF INVENTION: THEREFOR, AND USES THEREOF
; FILE REFERENCE: 09-410349-Eriksson et al-1064-44740
; CURRENT APPLICATION NUMBER: US/10/131,600
; CURRENT FILING DATE: 2002-04-25
; PRIOR APPLICATION NUMBER: US/09/410,349
; PRIOR FILING DATE: 1999-09-30
; PRIOR APPLICATION NUMBER: 60/108,109
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: 60/110,749
; PRIOR FILING DATE: 1998-12-03
; PRIOR APPLICATION NUMBER: 60/113,002
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: 60/135,426
; PRIOR FILING DATE: 1999-05-21
; PRIOR APPLICATION NUMBER: 60/144,022
; PRIOR FILING DATE: 1999-07-15
; NUMBER OF SEQ ID NOS: 39

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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-131-600-9

Query Match          59.0%; Score 499.5; DB 14; Length 170;
Best Local Similarity 61.5%; Pred. No. 4.2e-45;
Matches 96; Conservative 23; Mismatches 32; Indels 5; Gaps 2;

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Qy 57 IADHNEVSHIFSPSCVLLSRSCGCGDGLHCVALKTANITMQLKIPNDRPHSYVE 116
Db 61 VSEYPSVEVHMFSPSCVLLSRCTGCGDGLHCVETANVTMQLKIRSGDRP-SYVE 119

Qy 117 MTFSDVLCRPILETTKAERKTKGKRKQSTPQ 152
Db 120 LTFQHVRCRPLREKMKPERRRPGKGRKRRENO 155

RESULT 5
US-10-352-153-5
; Sequence 5, Application US/10352153
; Publication No. US2003021101A1
; GENERAL INFORMATION:
; APPLICANT: Wise, Lynn M
; APPLICANT: Mercer, Andrew A
; APPLICANT: Savory, Loren J
; APPLICANT: Fleming, Stephen B
; APPLICANT: Stacker, Stephen
; TITLE OF INVENTION: VASCULAR ENOTHELIAL GROWTH FACTOR-LIKE PROTEIN FROM ORF
; TITLE OF INVENTION: VIRUS NZ2 BINDS AND ACTIVATES MAMMALIAN VEGF
; TITLE OF INVENTION: RECEPTOR-2, AND USES THEREOF
; FILE REFERENCE: Sequence Listing for 09/431,833
; CURRENT APPLICATION NUMBER: US/10/352,153
; PRIOR FILING DATE: 2003-01-28
; PRIOR APPLICATION NUMBER: US/09/431,888A
; PRIOR FILING DATE: 1999-11-02
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/106,689
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-02
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/106,800
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-03
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-352-153-5

Query Match          59.0%; Score 499.5; DB 15; Length 170;
Best Local Similarity 61.5%; Pred. No. 4.2e-45;
Matches 96; Conservative 23; Mismatches 32; Indels 5; Gaps 2;

Qy 1 MLAMKLTFCFLQVLAVHS----QGALSAGNNSTEMEVVPPQWALSGNSSEVVPFQEWGSRSYCRALERLVD 56
Db 1 MPVMRLFPFCFLQVLAVHS----QGALSAGNNSTEMEVVPPQWALSGNSSEVVPFQEWGSRSYCRALERLVD 60

Qy 57 IADHNEVSHIFSPSCVLLSRSCGCGDGLHCVALKTANITMQLKIPNDRPHSYVE 116
Db 61 VSEYPSVEVHMFSPSCVLLSRCTGCGDGLHCVETANVTMQLKIRSGDRP-SYVE 119

Qy 117 MTFSDVLCRPILETTKAERKTKGKRKQSTPQ 152
Db 120 LTFQHVRCRPLREKMKPERRRPGKGRKRRENO 155

RESULT 6
US-10-303-997B-9
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; Sequence 9, Application US/10303997B
; Publication No. US20030211994A1
; GENERAL INFORMATION:
; APPLICANT: Li, Xuri
; APPLICANT: ERIKSSON, Ulf
; APPLICANT: CARMELIET, Peter
; APPLICANT: COLLUM, Desire
; TITLE OF INVENTION: COMPOSITION AND METHOD FOR MODULATING VASCULOGENESIS AND ANGIOGE
; FILE REFERENCE: 029065.44740C3
; CURRENT APPLICATION NUMBER: US/10/303,997B
; CURRENT FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: US 09/410,349
; PRIOR FILING DATE: 1999-09-30
; PRIOR APPLICATION NUMBER: US 60/102,461
; PRIOR FILING DATE: 1998-09-30
; PRIOR APPLICATION NUMBER: US 60/108,109
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: US 60/110,749
; PRIOR FILING DATE: 1998-12-03
; PRIOR APPLICATION NUMBER: US 60/113,002
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: US 60/135,426
; PRIOR FILING DATE: 1999-05-21
; PRIOR APPLICATION NUMBER: US 60/144,022
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-303-997B-9

Query Match          59.0%; Score 499.5; DB 15; Length 170;
Best Local Similarity 61.5%; Pred. No. 4.2e-45;
Matches 96; Conservative 23; Mismatches 32; Indels 5; Gaps 2;

Qy 1 MLAMKLTFCFLQVLAVHS----QGALSAGNNSTEMEVVPPQWALSGNSSEVVPFQEWGSRSYCRALERLVD 56
Db 1 MPVMRLFPFCFLQVLAVHS----QGALSAGNNSTEMEVVPPQWALSGNSSEVVPFQEWGSRSYCRALERLVD 60

Qy 57 IADHNEVSHIFSPSCVLLSRSCGCGDGLHCVALKTANITMQLKIPNDRPHSYVE 116
Db 61 VSEYPSVEVHMFSPSCVLLSRCTGCGDGLHCVETANVTMQLKIRSGDRP-SYVE 119

Qy 117 MTFSDVLCRPILETTKAERKTKGKRKQSTPQ 152
Db 120 LTFQHVRCRPLREKMKPERRRPGKGRKRRENO 155

RESULT 7
US-10-439-337A-9
; Sequence 9, Application US/10439337A
; Publication No. US20040053837A1
; GENERAL INFORMATION:
; APPLICANT: Li, Xuri
; APPLICANT: ERIKSSON, Ulf
; APPLICANT: CARMELIET, Peter
; APPLICANT: COLLUM, Desire
; TITLE OF INVENTION: COMPOSITION AND METHOD FOR MODULATING VASCULOGENESIS AND
; FILE REFERENCE: 029065.44740C4
; CURRENT APPLICATION NUMBER: US/10/439,337A
; CURRENT FILING DATE: 2003-05-16
; PRIOR APPLICATION NUMBER: US 10/303,997
; PRIOR FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: US 09/410,349
; PRIOR FILING DATE: 1999-09-30
; PRIOR APPLICATION NUMBER: US 60/102,461
; PRIOR FILING DATE: 1998-09-30
; PRIOR APPLICATION NUMBER: US 60/108,109
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: US 60/110,749
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; PRIOR FILING DATE: 1998-12-03
; PRIOR APPLICATION NUMBER: US 60/113,002
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: US 60/135,426
; PRIOR FILING DATE: 1999-05-21
; PRIOR APPLICATION NUMBER: US 60/144,022
; PRIOR FILING DATE: 1999-07-15
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 9
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-439-337A-9

Query Match          59.0%; Score 499.5; DB 15; Length 170;
Best Local Similarity 61.5%; Pred. No. 4.2e-45;
Matches 96; Conservative 23; Mismatches 32; Indels 5; Gaps 2;

QY 1 MLAMKLTCTFLOVLAVLHVS-----QGALSAGNNSTEMEVVPFNEVWGRSYCRPMKLVY 56
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Db 1 MPVWRLFPFCFLQQLAGLPAVPPQQWALSAGNSSEVEVPFQEVWGRSYCRALERLVD 60
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 57 IADHPNEVSHIFSPSCVLLSRSCGCGDEGLHCVALKTANITMQLKIPPNRDPHSYVE 116
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 61 VVSEYSPSEVHEMFSPSCVLLRCTGCCGDEDLHCVPETANVTMQLLKIRSGDRP-SYVE 119
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 117 MTFSDVLCRPILETTKAERKTKGKQSKTPQ 152
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 120 LTFQHVRCRPLREKMKPERRPKGRGKRRENQ 155
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 8
US-10-868-577A-69
; Sequence 69, Application US/10868577A
; Publication No. US20050032697A1
; GENERAL INFORMATION:
; APPLICANT: Alitalo et al.
; TITLE OF INVENTION: HEPARIN BINDING VEGFR-3 LIGANDS
; FILE REFERENCE: 28967/39359A
; CURRENT APPLICATION NUMBER: US/10/868,577A
; CURRENT FILING DATE: 2004-06-14
; PRIOR APPLICATION NUMBER: US 60/478,390
; PRIOR FILING DATE: 2003-06-12
; PRIOR APPLICATION NUMBER: US 10/669,176
; PRIOR FILING DATE: 2003-09-23
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 69
; LENGTH: 180
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-868-577A-69

Query Match          57.5%; Score 486.5; DB 17; Length 180;
Best Local Similarity 57.8%; Pred. No. 1.1e-43;
Matches 96; Conservative 23; Mismatches 32; Indels 15; Gaps 3;

QY 1 MLAMKLTCTFLOVLAVLHVS-----QGALSAGNNSTEMEVVPFNEVWGRSYCRPMKLVY 56
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Db 1 MPVWRLFPFCFLQQLAGLPAVPPQQWALSAGNSSEVEVPFQEVWGRSYCRALERLVD 60
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 57 IADHPNEVSHIFSPSCVLLSRSCGCGDEGLHCVALKTANITMQLKIPPNRDPHSYVE 116
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Db 61 VVSEYSPSEVHEMFSPSCVLLRCTGCCGDEDLHCVPETANVTMQLLKIRSGDRP-SYVE 119
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 117 MTFSDVLCR-----PILETTKAERKTKGKQSKTPQ 152
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Db 120 LTFQHVRCRGRNGKQKQKPLREKMKPERRPKGRGKRRENQ 165
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RESULT 9
US-09-795-006A-115
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; Sequence 115, Application US/09795006A
; Patent No. US20020151680A1
; GENERAL INFORMATION:
; APPLICANT: Alitalo et al
; TITLE OF INVENTION: MATERIALS AND METHODS INVOLVING HYBRID VASCULAR
; FILE REFERENCE: 28967/35977B
; CURRENT APPLICATION NUMBER: US/09/795,006A
; CURRENT FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: US 60/205,331
; PRIOR FILING DATE: 2000-05-18
; PRIOR APPLICATION NUMBER: US 60/185,205
; PRIOR FILING DATE: 2000-02-25
; NUMBER OF SEQ ID NOS: 175
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 115
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-795-006A-115

Query Match          56.1%; Score 474.5; DB 9; Length 149;
Best Local Similarity 64.1%; Pred. No. 1.7e-42;
Matches 91; Conservative 19; Mismatches 27; Indels 5; Gaps 2;

QY 1 MLAMKLTCTFLOVLAVLHVS-----QGALSAGNNSTEMEVVPFNEVWGRSYCRPMKLVY 56
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1 MPVWRLFPFCFLQQLAGLPAVPPQQWALSAGNSSEVEVPFQEVWGRSYCRALERLVD 60
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 57 IADHPNEVSHIFSPSCVLLSRSCGCGDEGLHCVALKTANITMQLKIPPNRDPHSYVE 116
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 61 VVSEYSPSEVHEMFSPSCVLLRCTGCCGDEDLHCVPETANVTMQLLKIRSGDRP-SYVE 119
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 117 MTFSDVLCRPILETTKAER 138
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 120 LTFQHVRCRPLREKMKPER 141
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 10
US-10-201-386-55
; Sequence 55, Application US/10201386
; Publication No. US20030091567A1
; GENERAL INFORMATION:
; APPLICANT: Alitalo, Kari
; APPLICANT: Joukov, Vladimir
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL GROWTH FACTOR C (VEGF-C) PROTEIN
; FILE REFERENCE: 28967/34140A
; CURRENT APPLICATION NUMBER: US/10/201,386
; CURRENT FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: US/09/534,376
; PRIOR FILING DATE: 2000-03-24
; PRIOR APPLICATION NUMBER: 09/355,700
; PRIOR FILING DATE: 1999-11-05
; PRIOR APPLICATION NUMBER: PCT/US98/01973
; PRIOR FILING DATE: 1998-02-02
; PRIOR APPLICATION NUMBER: 08/795,430
; PRIOR FILING DATE: 1997-02-05
; PRIOR APPLICATION NUMBER: PCT/FI96/00427
; PRIOR FILING DATE: 1996-08-01
; PRIOR APPLICATION NUMBER: 08/671,573
; PRIOR FILING DATE: 1996-06-28
; PRIOR APPLICATION NUMBER: 08/601,132
; PRIOR FILING DATE: 1996-02-14
; PRIOR APPLICATION NUMBER: 08/585,895
; PRIOR FILING DATE: 1996-01-12
; PRIOR APPLICATION NUMBER: 08/510,133
; PRIOR FILING DATE: 1995-08-01
; PRIOR APPLICATION NUMBER: 08/340,011
; PRIOR FILING DATE: 1994-11-14
; NUMBER OF SEQ ID NOS: 59
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 55
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; LENGTH: 149
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Human PIGF
US-10-201-386-55

Query Match          56.1%; Score 474.5; DB 14; Length 149;
Best Local Similarity 64.1%; Pred. No. 1.7e-42;
Matches 91; Conservative 19; Mismatches 27; Indels 5; Gaps 2;

QY 1 MLAMKLFCTCFLQVLAVHVS-----QGALSAGNNSTEMEVVPPNEVWGRSYCRPMKLVY 56
Db 1 MPVMRLFPFCFLQQLAGLALPAVPPQWALSAGNSSEVEVPPQEVWGRSYCRALERLVD 60

QY 57 IADHPNEVSHIFSPSCVLLSRSCGCCGDEGLHCVALKTANITMQILKIPPNRDPHSYVE 116
Db 61 VVSEYSPSEVHEMFSPSCVLLRCTGCCGDNLCVETANVTMQLLKIRSGDRP-SYVE 119

QY 117 MTFSDVLCRPILETTKAER 138
Db 120 LTFSQHVRCECRPLREKMKPER 141

RESULT 11
US-10-262-538-28
; Sequence 28, Application US/10262538
; Publication No. US20030113324A1
; GENERAL INFORMATION:
; APPLICANT: Alitalo et al
; TITLE OF INVENTION: NEUROPILIN/VEGF-C/VEGFR-3 MATERIALS AND METHODS
; FILE REFERENCE: 28967/37564
; CURRENT APPLICATION NUMBER: US/10/262,538
; PRIOR FILING DATE: 2002-09-30
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 28
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-262-538-28

Query Match          56.1%; Score 474.5; DB 14; Length 149;
Best Local Similarity 64.1%; Pred. No. 1.7e-42;
Matches 91; Conservative 19; Mismatches 27; Indels 5; Gaps 2;

QY 1 MLAMKLFCTCFLQVLAVHVS-----QGALSAGNNSTEMEVVPPNEVWGRSYCRPMKLVY 56
Db 1 MPVMRLFPFCFLQQLAGLALPAVPPQWALSAGNSSEVEVPPQEVWGRSYCRALERLVD 60

QY 57 IADHPNEVSHIFSPSCVLLSRSCGCCGDEGLHCVALKTANITMQILKIPPNRDPHSYVE 116
Db 61 VVSEYSPSEVHEMFSPSCVLLRCTGCCGDNLCVETANVTMQLLKIRSGDRP-SYVE 119

QY 117 MTFSDVLCRPILETTKAER 138
Db 120 LTFSQHVRCECRPLREKMKPER 141

RESULT 12
US-10-021-660-102
; Sequence 102, Application US/10021660
; Publication No. US20030152926A1
; GENERAL INFORMATION:
; APPLICANT: Murray, Richard
; APPLICANT: Glynn, Richard
; APPLICANT: Watson, Susan R.
; TITLE OF INVENTION: EOS Biotechnology, Inc.
; TITLE OF INVENTION: Compositions and Methods of Screening for Angiogenesis
; TITLE OF INVENTION: Modulators
; FILE REFERENCE: 018501-000710US
; CURRENT APPLICATION NUMBER: US/10/021,660
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; CURRENT FILING DATE: 2001-12-06
; PRIOR APPLICATION NUMBER: US/09/784,356
; PRIOR FILING DATE: 2001-02-14
; PRIOR APPLICATION NUMBER: US 09/637,977
; PRIOR FILING DATE: 2000-08-11
; NUMBER OF SEQ ID NOS: 135
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 102
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-021-660-102

Query Match          56.1%; Score 474.5; DB 14; Length 149;
Best Local Similarity 64.1%; Pred. No. 1.7e-42;
Matches 91; Conservative 19; Mismatches 27; Indels 5; Gaps 2;

QY 1 MLAMKLFCTCFLQVLAVHVS-----QGALSAGNNSTEMEVVPPNEVWGRSYCRPMKLVY 56
Db 1 MPVMRLFPFCFLQQLAGLALPAVPPQWALSAGNSSEVEVPPQEVWGRSYCRALERLVD 60

QY 57 IADHPNEVSHIFSPSCVLLSRSCGCCGDEGLHCVALKTANITMQILKIPPNRDPHSYVE 116
Db 61 VVSEYSPSEVHEMFSPSCVLLRCTGCCGDNLCVETANVTMQLLKIRSGDRP-SYVE 119

QY 117 MTFSDVLCRPILETTKAER 138
Db 120 LTFSQHVRCECRPLREKMKPER 141

RESULT 13
US-10-346-802-5
; Sequence 5, Application US/10346802
; Publication No. US20030166873A1
; GENERAL INFORMATION:
; APPLICANT: Lee, James
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: VEGF-RELATED PROTEIN
; FILE REFERENCE: P0963R1D1
; CURRENT APPLICATION NUMBER: US/10/346,802
; CURRENT FILING DATE: 2003-01-17
; PRIOR APPLICATION NUMBER: US/09/313,299B
; PRIOR FILING DATE: 1999-05-17
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 08/706,054
; PRIOR FILING DATE: EARLIER FILING DATE: 1996-08-30
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/003,491
; PRIOR FILING DATE: EARLIER FILING DATE: 1995-09-08
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 5
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human
; FEATURE:
; NAME/KEY: Human
; LOCATION: 1-149
; OTHER INFORMATION: Sequence source: PIGE-131
US-10-346-802-5

Query Match          56.1%; Score 474.5; DB 14; Length 149;
Best Local Similarity 64.1%; Pred. No. 1.7e-42;
Matches 91; Conservative 19; Mismatches 27; Indels 5; Gaps 2;

QY 1 MLAMKLFCTCFLQVLAVHVS-----QGALSAGNNSTEMEVVPPNEVWGRSYCRPMKLVY 56
Db 1 MPVMRLFPFCFLQQLAGLALPAVPPQWALSAGNSSEVEVPPQEVWGRSYCRALERLVD 60

QY 57 IADHPNEVSHIFSPSCVLLSRSCGCCGDEGLHCVALKTANITMQILKIPPNRDPHSYVE 116
Db 61 VVSEYSPSEVHEMFSPSCVLLRCTGCCGDNLCVETANVTMQLLKIRSGDRP-SYVE 119

QY 117 MTFSDVLCRPILETTKAER 138
Db 120 LTFSQHVRCECRPLREKMKPER 141
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RESULT 15
US-10-211-462-115
; Sequence 115, Application US/10211462
; Publication No. US20040033495A1
; GENERAL INFORMATION:
; APPLICANT: Murray, Richard
; APPLICANT: Glynnne, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Aziz, Natasha
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Angiogenesis, Compositions and
; Screening for Angiogenesis Modulators
; FILE REFERENCE: 018501-006200US
; CURRENT APPLICATION NUMBER: US/10/211,462
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US 09/784,356
; PRIOR FILING DATE: 2001-02-14
; PRIOR APPLICATION NUMBER: US 09/791,390
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: US 60/310,025
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: US 60/334,244
; PRIOR FILING DATE: 2001-11-29
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 115
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-211-462-115